

CITY OF SOMERVILLE,

MASSACHUSETTS.

ANNUAL REPORTS.



1883.

BOSTON:
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FAYETTE COURT, 603 WASHINGTON STREET.

1884.

CITY GOVERNMENT AND OFFICERS FOR 1883.

MAYOR.

JOHN A. CUMMINGS.

Residence, 16 Wallace Street ; office, City Hall.

ALDERMEN.

WILLIAM E. WELD, *President*.

WARD ONE.

MARK F. BURNS	Perkins Street.
LEVI F. S. DAVIS	Pearl Street.

WARD TWO.

J. FRANK WELLINGTON	Pleasant Avenue.
QUINCY A. VINAL	Aldersey Street.

WARD THREE.

THOMAS R. ROULSTONE	Bonair Street.
ALBION A. PERRY	Maple Avenue.

WARD FOUR.

ASA DURGIN	Broadway.
WILLIAM E. WELD	Harvard Street.

COMMON COUNCIL.

FRANK E. FITTS, *President*.

WARD ONE.

HIRAM G. JANVRIN	Pinckney Street.
MOSES G. STEELE	Rush Street.
CHARLES E. GILES	Webster Street.
NATHAN A. FITCH	Franklin Street.

ANNUAL REPORTS.

WARD TWO.

FRANK E. FITTS	Pleasant Avenue.
FREDERICK M. STODDER	Grandview Avenue.
SAMUEL G. A. TWYXCROSS	Warren Avenue.
DANA W. BENNETT	Prospect Street.

WARD THREE.

HENRY M. BEALS	Walnut Street.
HIRAM D. SMITH	Cross Street.
PHILIP O. WOODBERRY	Adams Street.
JOSIAH B. MAYHEW	Earle Street.

WARD FOUR.

J. LORENZO ATTWOOD	Elm Street.
IRVING L. RUSSELL	Broadway.
RICHARD T. BLACKWELL	Kent Court.
SAMUEL T. RICHARDS	Summer Street.

CLERK OF COMMON COUNCIL.

DOUGLAS FRAZAR.

JOINT STANDING COMMITTEES FOR 1883.

ACCOUNTS. — Aldermen Weld, Vinal; Councilmen Janvrin, Woodberry, Attwood.

BURIAL GROUNDS. — Aldermen Durgin, Roulstone; Councilmen Steele, Russell, Bennett.

CITY ENGINEERING. — Aldermen Durgin, Weld; Councilmen Steele, Bennett, Mayhew.

CLAIMS. — His Honor the Mayor, *ex-officio*; the President of the Council, *ex-officio*; Alderman Vinal; Councilmen Janvrin, Woodberry.

FINANCE. — His Honor the Mayor, *ex-officio*; the President of the Council, *ex-officio*; Aldermen Burns, Perry; Councilmen Smith, Blackwell, Fitch, Twycross.

FIRE DEPARTMENT.—Aldermen Roulstone, Davis; Councilmen Stodder, Blackwell, Mayhew.

FUEL AND STREET LIGHTS.—Aldermen Vinal, Perry; Councilmen Giles, Stodder, Russell.

HIGHWAYS.—Aldermen Durgin, Wellington; Councilmen Steele, Smith, Russell.

LEGISLATIVE MATTERS.—His Honor the Mayor, *ex-officio*; the President of the Council, *ex-officio*; Alderman Vinal; Councilmen Steele, Beals.

ORDINANCES.—Aldermen Burns, Perry; Councilmen Smith, Attwood, Bennett.

PRINTING.—Aldermen Roulstone, Davis; Councilmen Janvrin, Stodder, Attwood.

PUBLIC PROPERTY.—Aldermen Wellington, Burns; Councilmen Beals, Richards, Giles.

SOLDIERS' RELIEF.—Aldermen Roulstone, Davis; Councilmen Woodberry, Blackwell, Twycross.

WATER.—Aldermen Burns, Vinal; the President of the Council; Councilmen Richards, Beals.

COMMITTEES OF THE BOARD OF ALDERMEN.

(STANDING COMMITTEES.)

ELECTIONS.—Aldermen Davis, Weld.

ENROLLED ORDINANCES.—Aldermen Perry, Wellington.

LICENSES.—Aldermen Davis, Perry.

POLICE.—His Honor the Mayor, *ex-officio*; Aldermen Vinal, Durgin.

SEWERS.—Aldermen Weld, Burns, Perry.

STATE AID.—Aldermen Roulstone, Weld, Wellington, Davis.

SPECIAL COMMITTEE.

BUILDING PERMITS.—Aldermen Durgin, Roulstone.

STANDING COMMITTEES OF THE COMMON COUNCIL.

ELECTIONS AND RETURNS.—Councilmen Fitch, Bennett, Mayhew.

ENROLLED ORDINANCES AND RESOLUTIONS.—Councilmen Beals, Twycross, Fitch.

SCHOOL COMMITTEE.

JOHN A. CUMMINGS, Mayor, Chairman, *ex-officio*.

FRANK E. FITTS, President of the Common Council, *ex-officio*.

WARD ONE.

HORACE C. WHITE, M. D.	.	.	.	.	Pinckney Street.
JOHN H. BUTLER	.	.	.	.	Pearl Street.
HENRY M. MOORE	.	.	.	.	Myrtle Street.

WARD TWO.

REV. A. E. WINSHIP	.	.	.	.	Warren Avenue.
OREN S. KNAPP	.	.	.	.	School Street.
REV. GEO. W. DURELL	.	.	.	.	Summer Street.

WARD THREE.

Q. E. DICKERMAN	.	.	.	.	Central Street.
HENRY F. WOODS	.	.	.	.	Sycamore Street.
NORMAN W. BINGHAM	.	.	.	.	School Street.

WARD FOUR.

REV. C. M. SMITH, D. D.	.	.	.	.	Summer Street.
MISS HARRIET M. PITMAN	.	.	.	.	Summer Street.
PROF. BENJ. G. BROWN	.	.	.	.	Professors' Row.

Superintendent and Secretary, J. H. DAVIS, Myrtle Street.

PRINCIPAL ASSESSORS.

THOMAS CUNNINGHAM, <i>Chairman</i>	.	.	.	Oak Street.
STILLMAN H. LIBBY	.	.	.	Elm Street.
GEORGE W. HADLEY	.	.	.	Perkins Street.

ASSISTANT ASSESSORS.

DANIEL BROOKS, Ward One	.	.	Ellsworth Street.
BENJAMIN F. THOMPSON, Ward Two	.	.	Summit Avenue.
REUBEN A. MELVIN, Ward Three	.	.	Bonair Street.
WILLIAM A. MUZZEY, Ward Four	.	.	Newbury Street.

BOARD OF HEALTH.

GEORGE A. KIMBALL, <i>Chairman</i>.	. . .	Office, City Hall.
GEORGE C. SKILTON,	. . .	Walnut Street.
THOMAS M. DURELL, M.D.	. . .	Bow Street.
<i>Clerk</i> , GEORGE I. VINCENT	. . .	Office, City Hall.
<i>Inspector</i> , WILLIAM H. BRINE,	40 Houghton Street.	

COMMISSIONERS OF THE SINKING FUNDS.

NATHAN TUFTS	. . . . .	Summer Street.
HENRY F. WOODS	. . . . .	Sycamore Street.
JOHN A. HUGHES	. . . . .	Perkins Street.
<i>Treasurer</i> , AARON SARGENT,	Broadway.	

OVERSEERS OF THE POOR.

JOHN A. CUMMINGS, <i>Mayor, Chairman, Ex-officio</i> .	
FRANK E. FITTS, <i>Prest. Common Council</i>	"
ANSEL LEWIS	. . . . . Webster Street.
THOMAS CUNNINGHAM, <i>Secretary</i>	. . . Oak Street.
FRANK G. WILLIAMS (to June 13)	. . . Albion Street.
JESSE J. UNDERHILL (from June 13)	. . . Gilman Street.

MYSTIC WATER BOARD.

J. ORLIN HAYDEN, <i>President</i>	. . . Hill B'dg, Union Sq.
AARON R. COOLIDGE	. . . Columbus Avenue.
JAMES E. WHITAKER	. . . Sycamore Street.
WALTER S. BARNES	. . . Highland Avenue.
JOHN F. NICKERSON	. . . Flint Street.

Superintendent of Water Works, NATHANIEL DENNETT.
Office, Prospect Street, cor. Somerville Avenue.

TRUSTEES OF THE PUBLIC LIBRARY.

REV. H. H. BARBER	Pleasant Avenue.
PROF. WILLIAM G. TOUSEY . . .	Professors' Row.
WILLIAM VEAZIE	Walnut Street.
WILLIAM H. BRINE	Highland Avenue.
EDWIN S. CONANT	Pearl Street.
CHARLES S. LINCOLN	Laurel Street.
THOMAS J. BUFFUM	Florence Street.
J. HENRY FLITNER	Day Street.
CHRISTOPHER E. RYMES	Summer Street.

Librarian, MISS HARRIET A. ADAMS.

Assistant Librarian, MISS LIZZIE A. STEVENS.

CITY CLERK AND CLERK OF BOARD OF ALDERMEN.

CHARLES E. GILMAN, Office, City Hall.

CITY TREASURER AND COLLECTOR OF TAXES.

JOHN F. COLE, Office, City Hall.

CITY MESSENGER.

JAIRUS MANN, Office, City Hall.

CITY SOLICITOR.

SAMUEL C. DARLING, Office, 18 Rogers Building, Boston.

CITY AUDITOR.

DOUGLAS FRAZAR, Office, City Hall.

CITY ENGINEER.

GEORGE A. KIMBALL, Office, City Hall.

SUPERINTENDENT OF STREETS.

JOHN P. PRICHARD, 10 Cutter Street, Office, City Hall, to April 1.
FRANK G. WILLIAMS, Albion Street, “ “ from June 6.

CHIEF OF POLICE.

MELVILLE C. PARKHURST, Police Station, Bow Street.

CHIEF ENGINEER OF FIRE DEPARTMENT.

JAMES R. HOPKINS, Office, City Hall.

INSPECTOR OF BUILDINGS.

DAVID A. SANBORN, Prospect Street.

CITY PHYSICIAN.

THOMAS M. DURELL, M.D., 14 Bow Street.

CLERK OF ASSESSORS AND COMMITTEES.

GEORGE I. VINCENT, Office, City Hall.

ASSISTANT CLERK OF ASSESSORS AND COMMITTEES.

WILLIAM P. MITCHELL.

CONSTABLES.

JAIRUS MANN.

ROBERT R. PERRY.

HORACE B. RUNEY.

NEWELL F. CASWELL.

CHAS. C. FOLSOM.

WM. H. BRINE, (Houghton St.).

WM. D. HAYDEN.

FRANK G. WILLIAMS.

SAMUEL R. DOW.

C. C. CAVANAGH.

JOSEPH J. GILES.

FIELD DRIVERS.

CHARLES C. FOLSOM.

SAMUEL R. DOW.

JOHN E. FULLER.

HOWARD LOWELL.

P. W. SKINNER.

ALBION L. STAPLES.

JUDSON W. OLIVER.

MYRON H. KINSLEY.

ISAAC S. CAMPBELL.

FENCE VIEWERS.

DAVID A. SANBORN.

WARREN POLLARD.

CHAS. D. ELLIOT.

POUND-KEEPER.

CHAS. A. SMALL.

SEALER OF WEIGHTS AND MEASURES.

NOAH HARDING, Sycamore Street.

SURVEYORS OF WOOD, BARK, AND LUMBER.

ANSEL LEWIS.

SAMUEL T. LITTLEFIELD.

SURVEYOR OF STONE WORK.

JAMES R. HOPKINS.

SURVEYOR OF STONE, BRICK, AND PLASTER WORK.

ALFRED M. SIBLEY.

SURVEYOR OF MECHANICS' WORK.

CHAS. D. ELLIOT.

PUBLIC WEIGHERS.

D. W. DANFORTH.

PATRICK O'BRIEN.

UNDERTAKERS.

HORACE B. RUNEY.	A. L. SANBORN.	PATRICK RAFFERTY.
WM. A. FLAHERTY.	P. H. RAFFERTY.	H. D. RUNEY.
	E. H. MARSH.	

POLICE DEPARTMENT.

M. C. PARKHURST, *Chief.*

R. R. PERRY, *Captain.*

S. R. DOW, *Sergeant.*

C. C. FOLSOM, *Sergeant.*

N. F. CASWELL.

P. W. SKINNER.

C. C. CAVANAGH.

S. A. BROWN.

S. C. ROLLINS.

JOHN HAFFORD.

JOHN E. FULLER.

IVAN LAIGHTON.

HOWARD LOWELL.

M. H. KINSLEY.

F. W. SLADE.

I. S. CAMPBELL.

A. L. STAPLES.

EDWARD MCGARR.

ALBERT FISK.

G. A. BODGE.

J. W. OLIVER.

DENNIS KELLY.

GEO. W. BEAN.

GEO. H. CARLETON.

M. C. PARKHURST, *Lock-up Keeper.*

MEETINGS.

BOARD OF ALDERMEN.

Second and fourth Wednesday evenings of each month.

COMMON COUNCIL.

Thursday evenings following the second and fourth Wednesdays of each month.

SCHOOL COMMITTEE.

Last Monday evening of each month.

MAYOR'S INAUGURAL ADDRESS.

INAUGURAL ADDRESS OF
HON. JOHN A. CUMMINGS,

DELIVERED JAN. 1, 1883.

GENTLEMEN OF THE CITY COUNCIL:—

We have this day assumed important responsibilities for the ensuing year. In accordance with the nearly unanimously-expressed wish of our fellow-citizens, we have obligated ourselves to guard the interests and advance the moral and material welfare of our beloved city with all our energy and all our ability. To this work let us bring honesty of purpose, industrious effort, and unselfish devotion.

From the fact that our financial year closes with the thirty-first day of December, it is impossible to give at this time an exact statement of our accounts, but the following, furnished me by the city treasurer, is a nearly accurate statement of our

PRESENT FINANCIAL CONDITION.

The net debt of the city one year ago was \$1,263,668.87.
At the present date the debt is as follows:—

Total funded debt	\$1,585,000.00
Excess of assets over liabilities, 1881	\$ 9,067.54
Estimated excess of assets over liabilities, 1882	26,000.00
	<hr/> 35,067.54
Funded debt, less surplus of 1881, 1882	\$1,549,932.46
Less amount of sinking funds	373,654.18
	<hr/>
Net debt of the city, January 1st, 1883	\$1,176,278.28

Our indebtedness has been reduced during the year by the following items:—

Sinking fund, contribution and accumulation	\$61,390.59
Surplus saved from appropriations of 1882, estimated	26,000.00
Net reduction	<u>\$87,390.59</u>

The unfunded liabilities of the city last year were \$190,000; at this time the amount is \$160,000, and the uncollected taxes, assessments, and sundry accounts due, exceed this sum by about \$35,000.

The total valuation of the public property belonging to the city, including \$341,000 for water works, was \$1,155,000 one year ago. Allowing that over \$12,000 expended upon the maintenance, renewal and extension of our water works during the past year has nearly made good the annual depreciation, the value of our city property would remain about the same as last year with the exception of the Edgerly schoolhouse, to which four new rooms have been added, in accordance with the original plan of the building. The appropriation for this purpose was \$17,000, and the cost of the work when completed will probably overrun that amount some five or six hundred dollars. It is now one of the best eight-room school buildings in the city, amply fitted and furnished, and supplies what had become a pressing need in that district. Adding its cost to the valuation of last year, would give \$1,172,000 as the present value of our city property.

By the valuation of the assessors, the taxable property in the city on the first of May, 1882, was \$23,162,200, an increase over the previous year of \$593,100. A large portion of this increase was from the addition of new property to the lists. The total amount raised by taxation last year was \$425,721.16; and the rate, \$17.80 upon each \$1,000.

Our annual tax levy, valuation, and rate for the past seven years has been as follows:—

Year.	Tax levy.	Valuation.	Rate.
1876	\$504,475.24	\$26,573,400	\$18.60
1877	471,789.14	25,479,400	18.10
1878	409,497.10	20,976,900	19.00
1879	352,553.80	18,950,100	18.00
1880	402,927.71	20,458,100	19.10
1881	452,945.45	22,569,100	19.50
1882	425,721.16	23,162,200	17.80

The number of poll taxes assessed in each of the above years has been from five thousand to a little over six thousand, at \$2.00 each.

From the treasurer's reports I have collated the following figures, which give a nearly correct representation of the gradual improvement in our finances for the corresponding years, beginning with January 1st, 1876, the point where our net indebtedness was the greatest:—

	Funded debt.	Net debt.
January 1, 1876	\$1,571,854	\$1,573,447
“ 1877	1,606,854	1,541,724
“ 1878	1,606,854	1,503,099
“ 1879	1,596,854	1,388,748
“ 1880	1,585,000	1,408,172
“ 1881	1,585,000	1,357,838
“ 1882	1,585,000	1,263,668
“ 1883	1,585,000	1,176,278

The large reduction in the net debt, as shown by the above figures, in 1879, and the apparent increase in 1880, were to a certain extent fictitious, being caused by reckoning, as available assets, betterment assessments to the amount of several thousand dollars, laid for the widening of Somerville avenue, other streets, and the Public Park, in former years, on which there was a large depreciation, or total loss, in 1880. From these figures it will be seen that our progress for the last seven years towards a better financial standing has been steady and commendable, the average annual reduction of the debt being \$56,800. For the past three years the average annual reduction has been over \$77,000.

In the year which has just closed, a very large portion of the unexpended surplus arises from interest account. During the year, \$182,500 in city bonds, bearing interest at the rate of 6 1-2 per cent., matured. New bonds for a like amount were issued, bearing interest at the rate of 5 per cent. Of these bonds, \$61,500 in amount were placed in the sinking fund, and the balance \$121,000, having an average of twelve years to run, were sold in the open market, bringing a premium of \$16,031.60, which sum went to the credit of interest account. The premium received reduced the actual rate of interest paid by the city on these bonds to 3.30 per cent. Our temporary loans during the year have also been secured at an average rate of 3.73 per cent., and such loans

having been kept at the lowest possible sum, a considerable saving to interest account has been made from this source. The large saving the past year from the annual appropriations may therefore be attributed in a great degree to the improving financial condition of our city, and a favorable money market.

Our maturing bonds could have been renewed last year at the rate of 4 per cent., and sold at a premium, and I am now satisfied that it was a mistake that they were not issued bearing interest at that rate. In the future I would recommend that all bonds, except such as are to be placed in the sinking funds, be renewed at 4 per cent., if it can be done, and the bonds sold at par or a premium.

The funded debt of the city, according to the report of City Treasurer Sargent, for the year 1879, was contracted for the following purposes :—

Fire Department	\$ 26,000
Highways	257,000
For lands, buildings, war loans, school purposes, and undesignated town loans	295,000
Police Station	50,000
Public Park	200,000
School-houses	155,000
Sewers	227,000
Sidewalks	40,000
Water Works	335,000
Total	<hr/> \$1,585,000

While we are paying this funded debt, the demand upon us for expenditures for sewers, highways, sidewalks, school-houses, fire department, water works, etc., is nearly as pressing as it was upon our predecessors. The lesson is: Pay as you go; the policy which has been followed for the past seven years. Only in the most urgent cases should it be departed from. If we will but continue our conservative, economical course, Somerville will soon stand among the first cities in the Commonwealth in financial credit, wealth and population. Keep down our expenses, continue reducing our debt, and the road to prosperity is easy and sure.

SCHOOLS.

The appropriation for the support of our schools the past year, exclusive of \$17,000 for the addition to the Edgerly school building, amounted to \$82,000. The expenditures exceeded this sum by \$3,619.74; the excess being mostly in the item of school-teachers' salaries.

We have nineteen school buildings, ninety-three school-rooms, and eighty-nine schools. Eight male and ninety-three female teachers are employed. The number of scholars in attendance is:—

In the High School	279
“ Grammar Schools	2,189
“ Primary “	2,043
Total	<hr/> 4,511

The whole number of scholars registered in the last year was 5,576; the average attendance, 4,283. The number in attendance at the present time is 196 in excess of the number one year ago.

Most of our schools are under the charge of good teachers, and in a satisfactory condition. Some of them are among the first in rank. In these latter cases, the excellent standing attained is due almost entirely to the superior merit of the teachers. Every possible effort should be made by those upon whom the important duty of selecting teachers devolves to secure the very best, and under no circumstances should a poor or inferior teacher be retained after his or her qualifications have been tested and found wanting. A year or a term under an indifferent or incapable teacher is frequently but little better than lost time, and may be even worse than lost in its effect upon the pupil.

The expenditure for teachers' salaries last year was \$65,037; by far the largest item in our list of current expenses. We pay our teachers well, and should make every effort to secure those who excel in their calling.

PUBLIC LIBRARY.

During the past year additional shelving has been put into the library rooms, but the accommodations are still inadequate for the storage and delivery of books, and convenience of patrons. The whole number of volumes now in the library is 9,679, an increase

of 640 for the year. During the 306 days in 1882 that the library was open, 67,000 books were delivered and returned.

I believe it would be wise to erect, during the present year, at a cost of not more than four or five thousand dollars, a one-story building at the east end of the City Hall, to be connected with the latter by an archway. Suitable rooms for reading, for the storage of books, and for the transaction of the business, could thus be provided, and the annual expense for heating and janitor's services would be small. By this plan, ample accommodations would be provided for several years to come, without placing a heavy burden upon our treasury.

The appropriation for the support of the library the past year was \$1,500, of which sum \$1,400 was expended.

HIGHWAYS.

Our highways are as a rule in good condition, and compare favorably with those of our sister cities. In the year just closed, Vinal avenue and New Cross street have been accepted, graded, edgestones set, and gutters paved. North street has been widened, graded, and greatly improved. Edgestones have been set and gutters paved in Wallace and Day streets, and a brick sidewalk laid upon one side of the latter. Sidewalks have also been laid in Concord avenue, Newton and Pearl streets.

The total appropriation for this department last year was \$35,600, which included \$2,600 for sidewalks, and \$3,000 for watering streets. The expenditures have exceeded the amount appropriated by about \$1,800. During the early part of the year heavy storms occasioned an unusual expense for the removal of snow, and the extension of the tracks of the Charles River Street Railway in Summer street, Beacon street and Somerville avenue caused an extra outlay for repairs in those streets. The Charles River Street Railway Company now has some two miles of track in our city, and having recently obtained the privilege of running its cars into Boston, will be a great convenience to our people, and of decided advantage in the development and improvement of the territory which it accommodates.

During the past year efforts have been made to secure the rebuilding of the bridge over the Lowell Railroad at School street.

The railroad company desires to widen and rebuild the bridges at Cross and Walnut streets first, however, and a proposition has been made on the part of the city to grade the approaches if the company will rebuild the bridges and abutments on those streets. This proposition will probably be accepted by the company.

The committee on highways of last year, in their final report, recommended that the city purchase during the present year a steam road-roller and picker, at a cost of about \$5,000.

The members of that committee informed themselves, by personal investigation, as to the value and utility of such a machine, and I commend their recommendation to you. We have not a dollar to waste in trying experiments with new inventions, but if the practical usefulness of a steam roller has been tested so as to satisfy us that its use will save money in building and repairing our streets, it should be purchased. Other cities using them claim that a much better and more durable road bed is secured at a less cost than by the old method.

SEWERS.

One and one-half miles of new sewers have been constructed in the year past, at a cost of \$15,459.24. Of this amount, \$9,134.50 has been assessed upon abutting estates. For catch-basins, rebuilding, repairing, cleaning, and incidentals, \$5,197.81 has been expended. The appropriation for this department was \$14,000, and of this sum a little over \$3,000 was unexpended.

A serious defect in the Bow-street sewer, which has caused considerable trouble to abutters upon that street and Summer street, has been remedied by the continuance of the Bow-street sewer, some two hundred feet in Union square, to a junction with the large 5 1-2 foot sewer. Heretofore Bow-street sewer, three feet in diameter, came to a dead end near the termination of that street in Union square, and for an outlet had only a small two-foot sewer running across nearly at right angles into the old three-foot sewer in Somerville avenue. This connecting link, being less than half the size of the Bow-street sewer, was insufficient for the removal of surface water in case of a heavy rainfall, and the result was flooded cellars. This improvement has been made at a cost of \$958 to the city. We have several defective sewers in the city which ought to be reconstructed.

A report was made to the Legislature of 1882, by a commission appointed for that purpose, recommending a metropolitan sewerage system for towns and cities located on the Mystic, Charles and Neponset rivers. By this report a plan was presented, the estimated cost of which was \$13,000,000. Somerville's proportion of this expense was variously estimated at from \$79,000 to \$564,000. It is not advisable for us to advocate the construction of a costly system at present, but it would be well to have surveys made and a comprehensive plan prepared for the ultimate drainage of all our territory, so that our work from year to year might be made to conform to that plan, and be adjusted to it with small expense when it shall finally be adopted and constructed.

HEALTH.

The continued existence of diphtheria in our city prompts me to renew, in stronger terms my suggestion of one year ago, that measures should be taken to have the sanitary condition of every dwelling examined by a competent person, who should point out defects where found, and recommend a remedy. Of the houses examined by our board of health, ninety-nine per cent. are found with defective drainage, and often, through faulty construction or imperfect material, the street sewer is ventilated into the house. Many new houses are constructed with imperfect plumbing and drainage. After sickness, and perhaps death, has resulted, the services of the board of health are called in, and the defects remedied at an increased expense over what it would have cost to have properly performed the work in the first instance. All plumbing and drainage in new houses ought to be examined by an expert, and the rules of the board of health enforced, before being occupied.

The sanitary arrangements in our public buildings, especially our school-houses, should receive careful scrutiny, and every thing possible be done to make them perfect in this respect. Nearly all of our public buildings have been found defective in drainage and ventilation, and this is true not only of the older buildings, but of those recently constructed. Radical defects have been found in the latter, the result of gross carelessness, ignorance, or utter disregard of sanitary laws on the part of those having in charge their construction.

The appropriation for this department last year was \$2,500, and the expenditures exceeded this amount by \$324.

FIRE DEPARTMENT.

This department is efficient and in good condition. It consists of seventy-one men, including the chief and assistant engineer; one steam fire engine, one hook and ladder truck, and four horse hose carriages. The chief engineer recommends the purchase of a new steam fire engine this year, upon the ground that the present one is nearly worn out. Whether this is necessary or not, I leave to your judgment without suggestion. He also recommends that the hose carriage in Ward Four be equipped with ladders, or that the old ladder carriage now there be supplied with ladders; that portable fire extinguishers be placed upon each of the hose carriages, and that two new fire-alarm boxes be added. These recommendations are commended to your attention. Our department excels in the celerity with which a fire is reached when an alarm is given. Additional alarm boxes will add to its efficiency in this important respect.

The appropriation for this department last year was \$22,000, and the credits \$196.44 additional. The expenditure was \$22,124.89, leaving a balance of \$71.55 to the credit of the account.

The total estimated loss by fire was \$19,342, upon which insurance to the amount of \$17,379 was paid.

SUITS AT LAW.

The city is remarkably free from litigation, with but few suits of any importance now pending. During the year past the suit of Sanborn against the city, for grade damages on Washington street, has resulted in a verdict for the city.

Squire vs. Somerville has been referred to an auditor.

Sullivan vs. Somerville is still pending, and the suits of *Hitchings* and nine others for the abatement of betterment assessments for the laying out of Columbus avenue extension, have been taken to the Supreme Court for decision upon legal questions.

Whitcher vs. Somerville is an action recently brought for damages by reason of an accident on Washington street.

The suits of *Parker*, trustee, remain in the same condition as last year.

WATER CONTRACT.

A special committee was appointed last year to endeavor to secure a modification of the contract under which we are supplied with water by the city of Boston. That committee labored faithfully to accomplish the purpose, but failed, for reasons set forth in their final report to the last city government. It would be well to renew the effort the present year.

POOR DEPARTMENT.

The appropriation for this department in 1882, was \$14,000. The expenditures exceeded this amount by \$789. Our board of overseers recommend that an almshouse be provided as a measure of economy in the support of the poor. It would be well to carefully investigate the subject, and adopt the suggestion, if it should commend itself to your judgment. The calls upon the department are increasing with our increasing population, and it is only a question of time when some provision must be made for the care of the poor different from the present arrangement.

IN GENERAL.

Our police department consists of a chief, captain, two sergeants, and twenty patrolmen. The appropriation for its support last year was \$22,500, and about \$300 of this amount remained unexpended at the close of the year.

The appropriation for street lights in 1882 was \$7,000, and the expenditures exceeded that amount by \$146.

An unusually large number of questions in which our city was interested, came before the Legislature last year for action. Much of the time of our city solicitor during the first months of the year was occupied in committee hearings upon matters of importance to our city, and in his annual report he suggests that a standing committee upon legislative matters be appointed. I concur in the recommendation.

Our citizens, by a decided majority, have again voted that no licenses shall be granted for the sale of intoxicating liquors during the present year, and that expressed will must be carried out, and the sale of liquors prevented as far as possible. During

the past year it has been asserted in my hearing that as much liquor as ever was being sold within our limits. This I do not believe. In no case has a complaint been made to myself, or to our chief of police, where a prompt and earnest effort has not been made to bring the parties complained of under the arm of the law. The number of places searched for liquors in 1882 was 25; number of prosecutions made, 15; number of places closed by action, 11; number closed without action, 1. The statistics of our police force cannot be relied upon, of course, to show how much intoxication arises from liquor procured in our own city, and how much from that obtained elsewhere, but the following figures present a favorable showing for the past year in comparison with previous ones:—

1879.	Number of arrests for drunkenness	161
1880.	“ “ “	115
1881.	“ “ “	173
1882.	“ “ “	143

Number of disturbances and affrays caused by drunkenness:—

1879	358
1880	267
1881	265
1882	210

If any one feels that the law is not impartially and efficiently enforced, that person has only to enter his complaint to myself, or the chief of police, of any violation of the law within his knowledge, to secure immediate action and prosecution, if sufficient evidence can be obtained.

Our city is prosperous beyond any previous period in her history. In the year just closed, eighty-three new dwelling-houses, two manufactories, one car-house and five stables have been erected, aside from a large number of additions and improvements. In a great measure the continuance of this prosperity depends upon a wise and economical management of our municipal affairs. During the coming year, if each one of us will but devote his best efforts to the work before us, we will be able to turn over our responsibilities at its close with satisfaction to ourselves, and with the good opinion of our fellow-citizens. Your

immediate predecessors in our city council have left behind them a record unsurpassed for economy, efficiency and faithful attention to the duties of their several positions. I sincerely trust that you will emulate their example, and surpass it, if possible.

In closing, I desire to express to my fellow-citizens a deep sense of gratitude for the evidence of their confidence and esteem manifested in my re-election for a third term, by a nearly unanimous vote, to the responsible duties of this office. It will be my utmost endeavor to merit a continuance of that confidence, by faithful and industrious attention to the interests of our city during the coming year.

R E P O R T

OF THE

TREASURER AND COLLECTOR OF TAXES.

CITY OF SOMERVILLE.

IN BOARD OF MAYOR AND ALDERMEN, Jan. 23, 1884.

Referred to the Committee on Finance, and sent down for concurrence.

CHARLES E. GILMAN, *Clerk.*

IN COMMON COUNCIL, Jan. 24, 1884.

Concurred in.

DOUGLAS FRAZAR, *Clerk.*

IN COMMITTEE ON FINANCE, Feb. 8, 1884.

To the City Council of Somerville:—

Agreeably with the requirements of section 9 of ordinance No. 4, the Committee on Finance, in conjunction with the auditor, has examined the accounts and books and the annual report of the city treasurer and collector of taxes for the year 1883, and has failed to find any errors therein.

A comparison has been made with the books of the city auditor; with the warrants and vouchers in the files of the treasurer; with the statements forwarded in compliance with section 4 of ordinance No. 4, by the several committees and boards; and by a general comparison of the books and vouchers. The cash balance, as shown by said books and accounts, has also been verified by actual count, and examination of bank deposits. Your committee would commend the very neat and business-like appearance of the books and accounts of the city treasurer and collector of taxes, and the thorough and conscientious manner in which the duties of his office are discharged, and recommends that his report be accepted and printed with the annual reports.

JOHN A. CUMMINGS,	}	<i>Committee on Finance.</i>
HIRAM D. SMITH,		
SAMUEL G. A. TWYXCROSS,		
JOSIAH B. MAYHEW,		
ELBRIDGE G. PARK,		
ALBERT M. ROBINSON,		
FRANK A. TITUS,		

IN BOARD OF MAYOR AND ALDERMEN, Feb. 13, 1884.

Accepted and referred to the Committee on Printing, to be printed with the annual reports for 1883. Sent down for concurrence.

CHARLES E. GILMAN, *Clerk.*

IN COMMON COUNCIL, Feb. 14, 1884.

Concurred in.

DOUGLAS FRAZAR, *Clerk.*

CITY OF SOMERVILLE.

TREASURER'S OFFICE, January 19, 1884.

To the Honorable the Mayor and City Council of the City of Somerville:—

GENTLEMEN,—The undersigned presents herewith the twelfth annual report of the financial condition of the city, and a statement showing in detail the receipts and disbursements of the several departments for the year ending December 31, 1883.

The valuation of the public property December 31, 1882, was \$1,155,000, and the accessions thereto during the past year were, for cost of Edgerly School-house addition \$17,000, and for the furniture placed therein \$600; making the value of the public property. December 31, 1883, \$1,172,600. A new steam fire engine and four fire extinguishers have been purchased during the year by the committee on fire department, at a cost of \$4,136.50. The inventory of public property has not been increased by reason of the purchase of this apparatus, as the depreciation of the old engine made the purchase of a new one a necessity, in order to preserve the efficiency of the department.

The funded debt of the city remains the same as at the close of last year, viz., \$1,585,000.

City Loan Bond, No. 349,	\$36,500
City Loan Bonds, No. 353 to 373,	20,000
Water Loan Bond, No 36,	7,500
<hr/>	
Amounting to	\$64,000

became due during the year, and were provided for by the issue of

City Loan Bond, No. 465,	\$6,500
City Loan Bond, No. 466,	50,000
Water Loan Bond, No. 198,	6,500
Water Loan Bond, No. 199,	1,000
<hr/>	
Amounting to	\$64,000

all of which the commissioners of the sinking funds were enabled to purchase with the amount of their appropriation, added to the accumulations for the year.

There will mature, during the present year, bonds of the city amounting to \$473,500, bearing interest as follows:—\$5,000 at 5 per cent. ; \$20,000 at $5\frac{1}{2}$ per cent. ; \$26,000 at 6 per cent. ; and \$422,500 at $6\frac{1}{2}$ per cent., which will have to be provided for as follows:—

April 1st, \$47,000 ; July 1st, \$82,000 ; and October 1st, \$344,500. If these bonds are issued bearing interest coupons at 4 per cent., which can undoubtedly be done at a premium, reserving such an amount as will be required for the investment by the commissioners of the sinking funds of their appropriation and accumulations, to be issued at 5 per cent., there will be an annual reduction of the amount required to be appropriated for the payment of interest of about \$10,000.

The tax levy for 1883 was on a valuation of \$23,812,900, at a rate of \$16.70 on \$1,000 valuation; and 6,985 polls at \$2.00 each; amounting to \$411,645.43.

The appropriations for the year provided for by the tax levy, the additional amounts credited, the amount of expenditures and unexpended balances of the various departments, were as follows:—

Accounts.	Appropriations.	Additional Credits.	Expenditures and Balances.
CENTRAL HILL IMPROVEMENT:			
Appropriation	\$1,500 00		
Received for filling sold		\$56 70	
Expenditures			\$1,554 56
Unexpended balance			2 14
EDGERLY SCHOOL-HOUSE ADDITION:			
Appropriation	610 00		
Balance from 1882		1,479 66	
Expenditures			2,082 16
Unexpended balance			7 50
FIRE DEPARTMENT:			
Appropriation	22,000 00		
Received for manure and materials sold		180 20	
Expenditures			22,127 40
Unexpended balance			52 80

Accounts.	Appropriations.	Additional Credits.	Expenditures and Balances.
HEALTH DEPARTMENT:			
Appropriation	3,000 00		
Transferred from "Water Loan Interest Account,"		800 00	
Received for licenses to keep swine, etc.		372 38	
Expenditures			4,159 27
Unexpended balance			13 11
HIGHWAYS:			
Appropriation	32,000 00		
Received for labor and materials,		5,875 42	
Expenditures			36,861 87
Unexpended balance			1,013 55
INDIGENT SOLDIERS AND SAILORS:			
Appropriation	500 00		
Received from State of Mass.		430 50	
Expended			861 00
Unexpended balances			69 50
INTEREST:			
Appropriation \$68,000 00 }	60,483 25		
Trans. to other accts. . . 7,516 75 }			
Received interest, corporation and bank taxes		17,784 53	
Expenditures			77,711 55
Unexpended balance			556 23
MISCELLANEOUS:			
Appropriation	4,000 00		
Received for costs on taxes, etc.,		1,944 04	
Expenditures			3,860 35
Unexpended balance			2,083 69
NEW FIRE EXTINGUISHERS:			
Appropriation	300 00		
Expended			264 50
Unexpended balance			35 50
NEW STEAM FIRE ENGINE:			
Appropriation	4,000 00		
Expended			3,872 00
Unexpended balance			128 00
POLICE:			
Appropriation	22,500 00		
Received for court fees, fines, etc.		1,890 20	
Expenditures			23,816 01
Unexpended balance			574 19

Accounts.	Appropriations.	Additional Credits.	Expenditures and Balances.
POLICE STATION INCIDENTALS:			
Appropriation	1,800 00		
Received for rent of hall		943 50	
Expenditures			2,379 79
Unexpended balance			363 71
PUBLIC LIBRARY:			
Appropriation	1,500 00		
Received for dog licenses, fines, etc.		1,456 78	
Expenditures			2,868 33
Balance to be expended in 1884 .			88 45
PUBLIC PARK MAINTENANCE:			
Appropriation	1,500 00		
Expenditures			1,473 32
Unexpended balance			26 68
PRINTING AND STATIONERY:			
Appropriation	3,000 00		
Rec'd for advertising hearings. .		6 60	
Expenditures			2,381 30
Unexpended balance			625 30
SALARIES:			
Appropriation	18,700 00		
Expended			18,698 62
Unexpended balance			1 38
SCHOOL CONTINGENT:			
Appropriation	9,000 00		
Transferred from "Water Loan Interest account,"		750 00	
Received for tuition of non-resident scholars		301 50	
Expenditures			10,010 13
Unexpended balance			41 37
SCHOOL FUEL:			
Appropriation	5,000 00		
Expenditures			4,889 57
Unexpended balance			110 43
SCHOOL-HOUSE INCIDENTALS:			
Appropriation	7,000 00		
Trans. from "Interest account,"	3,228 86		
Received for rent of halls, etc. . .		245 50	
Expenditures			10,474 36
SCHOOL TEACHERS' SALARIES:			
Appropriation	68,000 00		
Trans. from "Interest acct." . .	1,287 89		
Expended			69,287 89

TREASURER AND TAX COLLECTOR'S REPORT.

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Accounts.	Appropriations.	Additional Credits.	Expenditures and Balances.
SEWERS:			
Appropriation	9,600 00		
Received for materials and labor furnished		401 04	
Expenditures			8,908 47
Unexpended balance			1,092 57
SIDEWALKS:			
Appropriation	3,000 00		
Received of B. and L. R.R. one-half cost of sidewalk		14 41	
Expenditures			2,502 41
Unexpended balance			512 00
SINKING FUND CONTRIBUTIONS:			
Appropriation	45,525 00		
Expended			45,525 00
STREET LIGHTS:			
Appropriations	7,500 00		
Received for lamp-posts set, etc.		240 84	
Expenditures			6,871 30
Unexpended balance			869 54
SUPPORT OF POOR:			
Appropriation	14,000 00		
Transferred from "Water Loan Interest account,"		350 00	
Received for support of paupers		1,856 33	
Expenditures			15,959 80
Unexpended balance			246 53
WATERING STREETS:			
Appropriation	3,000 00		
Received from abutters		2,930 16	
Expenditures			5,707 05
Unexpended balance			253 11
WATER MAINTENANCE:			
Appropriation	12,000 00		
Trans. from "Interest account,"	3,000 00		
Received for labor and materials furnished, etc.		1,152 25	
Expenditures			15,739 36
Unexpended balance			412 89
WATER LOAN INTEREST:			
Received of City of Boston return on water rates . . . \$19,661 67	} 17,761 67		
Trans. to other accts. . . 1,900 00			
Expended			17,512 50
Unexpended balance			249 17

Accounts.	Appropriations.	Additional Credits.	Expenditures and Balances.
STATE OF MASSACHUSETTS — STATE TAX:			
Appropriation	19,725 00		
Expended			19,725 00
COUNTY OF MIDDLESEX — COUNTY TAX:			
Appropriation	14,547 74		
Expended			14,547 74
OVERLAY AND ABATEMENT:			
Appropriation	8,837 69		
Applied and to be applied to abatements on taxes			8,837 69
Total amount of Appropriations . . .	\$411,645 43		
“ “ Additional Credits . . .	59,254 21		
“ “ Expenditures			\$461,558 75
Excess of Appropriations over current expenses			9,340 89
	<u>\$470,899 64</u>		<u>\$470,899 64</u>

The assets of the city available for the payment of its unfunded liabilities are as follows:—

Taxes	\$150,585.55
Real estate liens	3,729.86
State of Massachusetts, State Aid	3,654.50
State of Massachusetts, indigent soldiers and sailors	418.50
Highway betterment assessments	951.21
Sidewalk assessments	3,140.38
Sewer assessments	5,946.64
Water service assessments	857.80
Cash.	14,465.87
Total amount of available assets	<u>\$183,750 31</u>

The unfunded liabilities are:—

Temporary loans	\$135,000.00
Overlay and abatement account	2,302.45
Overplus on tax sales	102.13
Public Library, balance to be expended	88.45
Sundry persons	485.10
Total amount of unfunded liabilities	<u>\$137,978.13</u>
Excess of available assets over unfunded liabilities	<u>45,772.18</u>
	<u><u>\$183,750.31</u></u>

The financial condition of the city, without taking into consideration its public property, is as follows:—

Funded debt	\$1,585,000.00	
Amount of sinking funds as per report of the Commissioners .	438,133.19	
		<hr/>
Net amount of funded debt	\$1,146,866.81	
Excess of available assets over unfunded liabilities derived from		
Excess of appropriations over current expenses:		
1881	\$9067.54	
1882	27,012.43	
1883	9,340.89	
Public Park, unexpended balance	351.32	45,772.18
		<hr/>
Leaving a net indebtedness December 31, 1883, of	\$1,101,094.63	
		<hr/>
The total cash receipts for the year, including a balance of		
\$21,516.88, from the year 1882, were	\$935,106.53	
And the total cash disbursements	920,640.66	
		<hr/>
Leaving in the treasury the sum of	\$14,465.87	

A detailed statement of the funded debt, public property, and the receipts and disbursements of the various accounts will be found in the appendix to this report.

Respectfully submitted,

JOHN F. COLE, *Treasurer*

APPENDIX TO TREASURER'S AND COLLECTOR'S REPORT.

Table A.

PUBLIC PROPERTY, DEC. 31, 1883.

Central Hill Land (12 acres, 27,920 feet),		\$100,000 00
City Hall,	\$10,000 00	
Furniture,	3,000 00	
	<hr/>	13,000 00
Public Library,		8,500 00
Steam Fire Engine House,	\$10,000 00	
Furniture,	500,00	
Steam Fire Engine and Apparatus,	4,000 00	
Steam Fire Engine, Hose Carriage, and Apparatus,	2,000 00	
	<hr/>	16,500 00
High School-House,	\$40,000 00	
Furniture,	3,500 00	
Philosophical Apparatus,	500 00	
	<hr/>	44,000 00
Prescott School-House Land (21,444 feet) and Building,	\$40,000 00	
Furniture,	2,000 00	
	<hr/>	42,000 00
Luther V. Bell School-House Land (23,396 feet) and Building,	\$40,000 00	
Furniture,	3,000 00	
	<hr/>	43,000 00
Forster School-House Land (32,693 feet) and Building,	\$40,000 00	
Furniture,	1,500 00	
	<hr/>	41,500 00
<i>Amount carried forward,</i>		<hr/> \$308,500 00

APPENDIX TO TREASURER'S AND COLLECTOR'S REPORT. 37

<i>Amount brought forward,</i>		\$308,500.00
Morse School-House Land (29,109 feet) and Building,	\$25,000 00	
Furniture,	1,000 00	
	<hr/>	26,000 00
Highland School-House Land (23,260 feet) and Building	\$32,000 00	
Furniture,	1,000 00	
	<hr/>	33,000 00
Lincoln School-House Land (17,662 feet) and Building,	\$8,200 00	
Furniture,	300 00	
	<hr/>	8,500 00
Prospect Hill School-House Land (25,313 feet) and Building,	\$20,000 00	
Furniture,	600 00	
	<hr/>	20,600 00
Jackson School-House Land (11,212 feet) and Building,	\$8,000 00	
Furniture,	300 00	
	<hr/>	8,300 00
Bennett School-House Land (20,560 feet) and Building,	\$8,000 00	
Furniture,	300 00	
	<hr/>	8,300 00
Webster School-House Land (11,050 feet) and Building,	\$8,000 00	
Furniture,	300 00	
	<hr/>	8,300 00
Union School-House Land (9,360 feet) and Building,	\$2,500 00	
Furniture,	100 00	
	<hr/>	2,600 00
Harvard School Land (9,810 feet) and Building,	\$2,500 00	
Furniture,	100 00	
	<hr/>	2,600 00
<i>Amount carried forward,</i>		<hr/> \$426,700 00

<i>Amount brought forward,</i>		\$426,700 00
Edgerly School-House Land (26,428 feet) and Building,	\$25,000 00	
Furniture,	500 00	
	<hr/>	25,500 00
Edgerly School-House Addition,	\$17,000 00	
Furniture,	600 00	
	<hr/>	17,600 00
Brastow School-House Land (10,019 feet) and Building,	\$6,000 00	
Furniture,	250 00	6,250 00
	<hr/>	
Franklin School-House Land (33,017 feet) and Building,	\$14,000 00	
Furniture,	300 00	
	<hr/>	14,300 00
Leach Street School-House Land (6,000 feet) and Building,	\$4,500 00	
Furniture,	250 00	
	<hr/>	4,750 00
Spring Hill School-House Land (4,991 feet) and Building,	\$1,600 00	
Furniture,	100 00	
	<hr/>	1,700 00
City Farm Land (10 acres, 12,523 feet)		30,000 00
Cedar Street School-House,	\$700 00	
Furniture,	100 00	
	<hr/>	800 00
City Stables and Dwelling-Houses,		7,000 00
Equipments for Highway Repairs,		3,000 00
Watering Carts and Sheds,		2,300 00
No. 1 Hose House Land (4,312 feet) and Building,	\$2,300 00	
Furniture,	400 00	
John E. Wool Hose Carriage and Apparatus,	2,000 00	
	<hr/>	4,700 00
<i>Amount carried forward,</i>		<hr/> \$544,600 00

<i>Amount brought forward,</i>		\$544,600 00
No. 2, Hose House Land (5,400 feet)		
and Building,	\$7,500 00	
Furniture,	300 00	
Winter Hill Hose Carriage		
and Apparatus,	2,000 00	
	<hr/>	9,800 00
No. 3, Hose House Land (5,226 feet)		
and Building,	\$9,000 00	
Furniture,	300 00	
George H. Foster, Hose Car-		
riage and Apparatus,	2,000 00	
R. A. Vinal Hook and Ladder	.	
Truck and Apparatus,	3,400 00	
Prescott Hook and Ladder		
Truck and Apparatus	100 00	
	<hr/>	14,800 00
No. 4, Hose House Land (9,100 feet)		
and Building	11,000 00	
Furniture,	400 00	
Geo. O. Brastow Hose Car-		
riage and Apparatus,	2,000 00	
Relief Hose Carriage,	600 00	
	<hr/>	14,000 00
Fire Alarm Telegraph,		15,800 00
Police Station Land (15,232 feet) and		
Building (Bow Street)	40,000 00	
Furniture,	3,000 00	
	<hr/>	43,000 00
Prospect Street Land (7,918 feet) and		
Building,		7,000 00
Public Park (cost \$212,993.20),		125,000 00
Joy Street Land (2960 feet),		500 00
Walnut Hill Land (10,890 feet),		1,000 00
Elm Street Land (18,000 feet),		3,600 00
		<hr/>
<i>Amount carried forward,</i>		\$779,100 00

<i>Amount brought forward,</i>	\$779,100 00
Ledge Land on Bond Street (39,732 feet),	2,500 00
Holland Street (5 a., 6,806 feet),	12,000 00
Somerville Avenue (39,456 feet),	5,000 00
Gravel land in Waltham about 35 acres),	15,000 00
Gravel land in Wakefield (about 1½ acres),	5,000 00
Gravel Land in Winchester (about 2 acres),	500 00
Somerville Water Works (cost \$342,608.76),	341,000 00
Tufts Street Land (29,584 feet),	5,000 00
Oliver Street Land (63,069 feet),	7,500 00
Total value of Public Property,	<hr/> \$1,172,600 00

Table B.
FUNDED DEBT, DECEMBER 31, 1883.

Date.	Loan.	Number of Bonds.	Rate per cent of Interest	When due.	Denomination.	Amount.
1874. April 1,	"	49,	6½	1884. April 1,	\$10,000	\$10,000
"	"	52 to 54,	"	"	5,000	15,000
"	"	55,	"	"	2,000	2,000
"	"	57 and 60,	"	"	10,000	20,000
1872. July 1,	"	7,	5½	July 1,	20,000	20,000
1874. July 1,	"	66,	6½	"	2,000	2,000
"	"	67,	"	"	5,000	5,000
"	"	72 to 79,	"	"	5,000	40,000
"	Water,	16 to 18,	"	"	5,000	15,000
1872. Oct. 1,	City,	13,	6	Oct. 1,	6,000	6,000
"	"	14 to 17,	"	"	5,000	20,000
1874. Oct. 1,	"	80 to 86,	6½	"	5,000	35,000
"	"	87 to 96,	"	"	5,000	50,000
"	"	98,	"	"	5,000	5,000
"	"	99,	"	"	2,500	2,500
"	"	100,	"	"	1,000	1,000
"	"	101 to 103,	"	"	3,000	9,000
"	"	104,	"	"	1,000	1,000
"	"	105,	"	"	2,000	2,000
"	"	106 to 111,	"	"	5,000	30,000
"	"	116,	"	"	3,000	3,000
"	"	117 to 121, 123 to 142,	"	"	5,000	125,000
"	"	147 to 156,	"	"	5,000	50,000
1877. Oct. 1,	Water,	32,	5	"	5,000	5,000
1878. Jan. 1,	City,	337,	"	1885. Jan. 1,	5,000	5,000
1876. April 1,	"	188,	5½	April 1,	4,500	4,500
1879. April 1,	"	342,	5	"	6,000	6,000
1880. Oct. 1,	"	350,	"	"	6,000	6,000
1881. Oct. 1,	"	413,	"	"	6,000	6,000
1882. Oct. 2,	"	462,	"	"	7,000	7,000
1883. Oct. 1,	"	465,	5	"	6,500	6,500
1875. July 1,	Water,	19 to 22,	6	July 1,	5,000	20,000
"	City,	157,	"	"	4,000	4,000
"	"	158,	"	"	3,000	3,000
"	"	159,	"	"	5,000	5,000
"	"	160 to 162,	"	"	5,000	15,000
"	"	163 to 174,	"	"	5,000	60,000
1876. April 1,	"	175 to 182,	5½	1886. April 1,	5,000	40,000
"	"	183 to 185,	"	"	5,000	15,000
Amount		carried forward . . .	. . . . .	. . . . .	. . . . .	\$676,500

Table B.—Continued.

Date.	Loan.	Number of Bonds.	Rate per cent of Interest	When due.	Denomination.	Amount.
	<i>Amount</i>	<i>brought forward</i>	....	.....	.....	\$676,500
1876.				1886.		
April 1,	City,	186,	5½	April 1,	\$5,000	5,000
"		187,	"	"	1,000	1,000
"	Water,	23 to 27,	"	"	10,000	50,000
"	"	28,	"	"	5,500	5,500
1882.				1887.		
July 1,	City,	423 to 437,	5	July 1,	1,000	15,000
"		438,	"	"	500	500
1880.						
Oct. 1,	Water,	37 to 45,	"	Oct. 1,	1,000	9,000
1881.						
April 1.	City,	373 to 412,	"	"	1,000	40,000
Oct. 1,	"	416	"	"	500	500
"	"	417 to 422,	"	"	1,000	6,000
1882.				1888.		
July 1,	"	439 to 461,	"	July 1,	1,000	23,000
1881.				1889.		
Jan. 1,	Water,	57 to 65,	"	Jan. 1,	1,000	9,000
1880.						
Oct. 1,	"	46 to 54,	"	Oct. 1,	1,000	9,000
"	"	55,	"	1890.		
1881,	"			Oct. 1,	9,000	9,000
Jan. 1,	"	66 to 76,	"	1892.		
Oct. 1,	"	78 to 88,	"	Jan. 1,	1,000	11,000
"	"			Oct. 1,	1,000	11,000
"	"	89 to 99,	"	1893.		
"	"			Oct. 1,	1,000	11,000
"	"	100 to 111,	"	1894.		
1878.				Oct. 1,	1,000	12,000
Jan. 1,	City,	335,	"	1895.		
"	"	336,	"	Jan. 1.	37,000	37,000
"	"	338,	"	"	1,000	1,000
1879.				"	2,000	2,000
Jan. 1,	Water,	34,	"	"	25,000	25,000
"	City,	339,	"	"	12,000	12,000
"	"	340,	"	"	1,500	1,500
"	"	341,	"	"	1,500	1,500
1880.						
Jan. 1,	"	346,	"	"	2,000	2,000
"	"	347,	"	"	1,000	1,000
"	"	348,	"	"	5,500	5,500
1876.						
April 1,	"	189,	5½	April 1	35,500	35,500
Oct. 1,	"	190 to 194,	5	"	5,000	25,000
"	"	195 to 334,	"	"	1,000	140,000
1879.						
April 1,	"	343,	"	"	4,000	4,000
Oct. 1,	"	344,	"	"	8,000	8,000
"	"	345,	"	"	25,000	25,000
1880.						
Oct. 1,	"	351,	"	"	1,000	1,000
"	"	352,	"	"	42,500	42,500
	<i>Amount</i>	<i>carried forward</i>	....	.....	.....	\$1,273,500

Table B.—*Concluded.*

Date.	Loan.	Number of Bonds.	Rate per cent of Interest	When due.	Denomi- nation.	Amount.
	<i>Amount</i>	<i>brought forward . . .</i>	<i>.</i>	<i>.</i>	<i>.</i>	\$1,273,500
1881. Oct. 1,	City,	414, 415,	5 "	1895. April 1,	\$45,000 1,000	45,000 1,000
1882. Oct. 2,	"	463, 464	" "	" "	45,000 2,000	45,000 2,000
1883. Oct. 1,	"	466,	"	"	50,000	50,000
July 1,	Water,	112 to 124,	"	July 1,	1,000	13,000
1876, July 1,	Sewer,	1 to 7,	"	1896. July 1,	5,000	35,000
1882. July 1,	Water,	125 to 136, 137,	" "	" "	1,000 500	12,000 500
"	"	138 to 151,	"	1897. July 1,	1,000	14,000
"	"	152 to 166,	"	1898. July 1,	1,000	15,000
"	"	167 to 181,	5	1899. July 1,	1,000	15,000
"	"	182,	"	"	500	500
"	"	183 to 194,	"	1900. July 1,	1,000	12,000
"	"	195,	"	"	500	500
1877. Oct. 1,	"	33,	"	1904. Oct. 1,	5,000	5,000
1879. Jan. 1,	"	35,	"	1905. Jan. 1,	5,000	5,000
1876. April 1,	"	29,	5½	April 1,	4,500	4,500
1880. Oct. 1,	"	56,	5	"	5,500	5,500
1881. Oct. 1,	"	77,	"	"	6,000	6,000
1882. Oct. 2,	"	196,	"	"	6,500	6,500
"	"	197,	"	"	1,000	1,000
1883. Oct. 1,	"	198,	"	"	6,500	6,500
"	"	199,	"	"	1,000	1,000
1876. July 1,	"	30 and 31,	5½	1906. July 1,	5,000	10,000
	<i>Total</i>	<i>Funded Debt</i>	<i>.</i>	<i>.</i>	<i>.</i>	\$1,585,000

Table C.

STATEMENT OF ACCOUNTS SHOWING APPROPRIATIONS, EXPENDITURES, ETC., TO DECEMBER 31, 1833.

APPROPRIATIONS.

Credit.		
TAXES, amount assessed for current expenses,		\$368,535 00
PROPERTY and DEBT BALANCE,		64,000 00
		<hr/>
		\$432,535 00
Debit.		
CENTRAL HILL IMPROVEMENTS,	\$1,500 00	
EDGERLY SCHOOL-HOUSE ADDITION,	610 00	
FIRE DEPARTMENT,	22,000 00	
HEALTH DEPARTMENT,	3,000 00	
HIGHWAYS,	32,000 00	
INDIGENT SOLDIERS AND SAILORS,	500 00	
INTEREST,	68,000 00	
MISCELLANEOUS,	4,000 00	
NEW FIRE EXTINGUISHERS,	300 00	
NEW STEAM FIRE ENGINE,	4,000 00	
POLICE,	22,500 00	
POLICE STATION INCIDENTALS,	1,800 00	
PUBLIC LIBRARY,	1,500 00	
PUBLIC PARK MAINTENANCE,	1,500 00	
PRINTING AND STATIONERY,	3,000 00	
SALARIES,	18,700 00	
SCHOOL CONTINGENT,	9,000 00	
SCHOOL FUEL,	5,000 00	
SCHOOL-HOUSE INCIDENTALS,	7,000 00	
SCHOOL TEACHERS' SALARIES,	68,000 00	
SEWERS,	9,600 00	
SIDEWALKS,	3,000 00	
SINKING FUND CONTRIBUTIONS,	45,525 00	
STREET LIGHTS,	7,500 00	
SUPPORT OF POOR,	14,000 00	
WATERING STREETS,	3,000 00	
WATER MAINTENANCE,	12,000 00	
RENEWALS OF FUNDED DEBT,	64,000 00	
		<hr/>
		\$432,535 00

CASH.

	Credit.	
COUNTY OF MIDDLESEX,	\$14,547	74
CENTRAL HILL IMPROVEMENT,	1,554	56
EDGERLY SCHOOL-HOUSE ADDITION,	2,082	16
FIRE DEPARTMENT,	22,127	40
FUNDED DEBT,	64,000	00
HEALTH DEPARTMENT,	4,159	27
HIGHWAYS,	36,861	87
INDIGENT SOLDIERS AND SAILORS.	861	00
INTEREST,	77,261	55
MISCELLANEOUS,	3,860	35
NEW FIRE EXTINGUISHERS,	264	50
NEW STEAM FIRE ENGINE,	3,872	00
OVERPLUS ON TAX SALES,	96	00
POLICE,	23,816	01
POLICE STATION INCIDENTALS,	2,379	79
PUBLIC LIBRARY,	2,868	33
PUBLIC PARK MAINTENANCE,	1,473	32
SALARIES,	18,698	62
SCHOOL CONTINGENT,	10,010	13
SCHOOL FUEL,	4,889	57
SCHOOL-HOUSE INCIDENTALS,	10,474	36
SCHOOL TEACHERS' SALARIES,	69,287	89
SEWERS,	16,782	16
SIDEWALKS,	4,949	07
SINKING FUND CONTRIBUTIONS,	45,525	00
STREET LIGHTS,	6,871	30
SUPPORT OF POOR,	15,959	80
STATE OF MASSACHUSETTS,	19,725	00
STATE AID,	3,821	25
SUNDRY PERSONS,	1,075	00
TEMPORARY LOANS,	385,000	00
WATERING STREETS,	5,707	05
WATER MAINTENANCE,	15,739	36
WATER SERVICES,	4,145	45
WATER LOAN INTEREST,	17,512	50
PRINTING AND STATIONERY,	2,381	30
BALANCE, to debit in account 1884,	14,465	87
	<hr/>	
	\$935,106	53

	Debit.	
BALANCE FROM 1882,	\$21,516 88	
CENTRAL HILL IMPROVEMENT,	56 70	
FUNDED DEBT,	64,000 00	
FIRE DEPARTMENT,	180 20	
HEALTH DEPARTMENT,	372 38	
HIGHWAYS,	5,875 42	
HIGHWAY BETTERMENT ASSESSMENTS,	28 77	
INTEREST,	17,725 79	
MISCELLANEOUS,	1,897 34	
OVERPLUS ON TAX SALES,	9 00	
POLICE,	1,890 20	
POLICE STATION INCIDENTALS,	943 50	
PUBLIC LIBRARY,	1,356 49	
PRINTING AND STATIONERY,	6 60	
SCHOOL CONTINGENT,	301 50	
SCHOOL-HOUSE INCIDENTALS,	245 50	
SEWERS,	401 04	
SEWER ASSESSMENTS,	9,792 46	
SIDEWALKS,	14 41	
SIDEWALK ASSESSMENTS,	2,619 12	
STREET LIGHTS,	240 84	
SUPPORT OF POOR,	1,856 33	
STATE AID,	19 75	
STATE OF MASSACHUSETTS,—INDIGENT		
SOLDIERS AND SAILORS,	493 00	
STATE OF MASSACHUSETTS,—STATE AID,	4,459 75	
REAL ESTATE LIENS,	252 93	
TAXES,	410,765 08	
TEMPORARY LOANS,	360,000 00	
WATER MAINTENANCE,	672 89	
WATER SERVICES,	394 05	
WATER SERVICE ASSESSMENTS,	4,096 78	
WATER LOAN INTEREST,	19,661 67	
WATERING STREETS,	2,960 16	
	<hr/>	\$935 106 53

COUNTY OF MIDDLESEX.

Credit.

TAXES, amount assessed for county tax,	\$14,547 74
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Debit.

CASH, paid county tax,	14,547 74
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CENTRAL HILL IMPROVEMENT.

Credit.

APPROPRIATIONS, amount assessed,	\$1,500 00
CASH received of Albert Fitch, filling,	\$3 00
John Copithorne, filling,	12 50
R. H. Sturtevant, filling,	41 20
	56 70
	<u>\$1,556 70</u>

Debit.

CASH, paid Walter Bates, concrete walk,	\$568 08
T. F. Crimmings, teaming,	36 00
Owen Cunningham, teaming,	92 26
Christopher Burke, teaming,	132 76
John Welch, teaming,	95 63
W. J. McLaughlin, teaming,	18 00
Highways account, labor, teaming, etc.,	611 83
	<u>\$1,554 56</u>
EXCESS and DEFICIENCY, balance to credit of account,	2 14
	<u>1,556 70</u>

EXCESS AND DEFICIENCY.

Credit.

BALANCE from 1882,	\$36,079 97
CENTRAL HILL IMPROVEMENT, credit balance of account,	2 14
FIRE DEPARTMENT, credit balance of account,	52 80
HEALTH DEPARTMENT, " " "	13 11
HIGHWAYS, " " "	1,013 55
Amount carried forward,	<u>\$37,161 57</u>

<i>Amount brought forward,</i>	\$37,161 57
INDIGENT SOLDIERS AND SAILORS, credit balance of account,	69 50
INTEREST, credit balance of account,	556 23
EDGERLY SCHOOL-HOUSE ADDITION, credit balance of account,	7 50
MISCELLANEOUS, credit balance of account,	2,083 69
NEW FIRE EXTINGUISHERS, credit balance of account,	35 50
NEW STEAM FIRE ENGINE, " " "	128 00
POLICE, " " "	574 19
POLICE STATION INCIDENTALS, " " "	363 71
PUBLIC PARK, " " "	351 32
PUBLIC PARK MAINTENANCE, " " "	26 68
SALARIES, " " "	1 38
SCHOOL CONTINGENT, " " "	41 37
SCHOOL FUEL, " " "	110 43
SEWERS, " " "	1,092 57
SIDEWALKS, " " "	512 00
STREET LIGHTS, " " "	869 54
SUPPORT OF POOR, " " "	246 53
WATERING STREETS, " " "	253 11
WATER MAINTENANCE, " " "	412 89
WATER LOAN INTEREST, " " "	249 17
PRINTING AND STATIONERY, " " "	625 30
BALANCE, to credit in account, 1884,	<u>\$45,772 18</u>

EDGERLY SCHOOL-HOUSE ADDITION.

Credit.

BALANCE from 1882,	\$1,479 66
APPROPRIATIONS, amount assessed,	610 00
	<u>\$2,089 66</u>

Debit.

CASH, paid Mead, Mason & Co., on account carpenter work,	\$1,500 00	
M. Mullen, glv. iron pipe,	8 00	
<i>Amounts carried forward,</i>	<u>\$1,508 00</u>	<u>\$2,089 66</u>

APPENDIX TO TREASURER'S AND COLLECTOR'S REPORT. 49

<i>Amounts brought forward,</i>	\$1,508 00	\$2,089 66
Samuel D. Kelley, final payment services as architect,	50 00	
Mead, Mason & Co., final pay- ment carpenter work,	524 16	
	<hr/>	
	\$2,082 16	
EXCESS AND DEFICIENCY, balance to credit of account,	7 50	
	<hr/>	
		<u>2,089 66</u>

FIRE DEPARTMENT.

Credit.

APPROPRIATIONS, amount assessed,		\$22,000 00
CASH, received of J. W. Gerry, old leather hose,	\$3 50	
Patrick J. Keating, second-hand furniture,	5 00	
L. Barrican, bill for repairing harnesses, not called for,	90	
Lorenzo W. Dow, manure,	52 00	
W. F. Foster & Co., old zinc and copper,	54 80	
Sewers Account, old hose and couplings,	64 00	
	<hr/>	
		180 20
		<hr/>
		\$22,180 20

Debit.

CASH, paid James R. Hopkins, chief engineer.	\$1,100 00	
W. C. Barker, assistant engineer,	300 00	
Steamer Engine Company,	788 50	
John E. Wool Hose Company,	699 75	
Winter Hill Hose Company,	698 75	
George H. Foster Hose Company,	693 50	
	<hr/>	
<i>Amounts carried forward,</i>	\$4,280 50	\$22,180 20

<i>Amounts brought forward,</i>	\$4,280 50	\$22,180 20
George O. Brastow Hose Com- pany,	668 00	
R. A. Vinal Hook and Ladder Company,	1,056 00	
Steamer Engineer,	950 00	
Steamer Fireman,	780 00	
Seven Drivers,	5,460 00	
I. C. Jackson, substitute driver,	130 00	
W. H. Whitcomb, “	162 50	
“ “ labor,	12 06	
City of Boston, water for hy- drants,	1,428 00	
City of Boston, water rates,	110 00	
George McDormand, horseshoeing,	39 82	
J. W. Gerry, “	18 28	
Gerry & Sullivan, “	27 72	
Edward O'Brien, “	39 78	
Charles Maguire, “	60 60	
Charles W. Ingalls & Co. “	7 30	
Seward Dodge, shoeing and black- smithing,	102 95	
William C. Bradstreet, black- smithing,	5 75	
B. F. Robinson, blacksmithing,	8 00	
Cook, Rymes & Co., repairing ap- paratus,	36 47	
Bowditch & Cogswell, repairing apparatus,	16 23	
Hunneman & Co., repairing appa- ratus,	53 08	
E. Teel & Co., repairing apparatus,	294 75	
David W. Crocker, “	24 75	
J. Leland, “	37 30	
Burbank & Osborne, painting hose carriage, etc.,	45 00	
G. M. J. Wilson, repairing har- nesses,	75 40	
<i>Amounts carried forward,</i>	<u>\$15,930 24</u>	<u>\$22,180 20</u>

<i>Amounts brought forward,</i>	\$15,930 24	\$22,180 20
F. Ivers, repairing harnesses,	8 75	
E. Spalding & Co., repairing harnesses,	21 25	
B. W. Lawrence, swinging harness,	40 00	
Maurice Reardon, horse collars,	13 00	
Charles E. Berry, hames,	48 00	
George W. Bragdon, repairing chairs,	6 00	
Forbush & Clifford, “	6 50	
Nathan Tufts & Son, grain,	589 80	
Proctor Bros., hay,	262 96	
J. H. Lovell, “	142 00	
J. F. Ham, “	282 20	
Lord & Webster, straw,	76 68	
Hewey, Skillings & Co., hay,	3 21	
W. M. Hadley, hay and straw,	61 44	
“ wood and coal,	556 64	
Horatio Wellington & Co., Cannel coal,	43 50	
E. S. Kimberly, coal,	13 00	
Charlestown Gas Co., gas,	95 24	
Cambridge Gas Light Co., gas,	143 12	
Samuel Cooper & Brother, horse,	250 00	
Lewis Putnam, veterinary services,	26 00	
E. T. Chaffee, drugs,	50	
Samuel H. Stevens, drugs,	1 33	
Mrs. Calvert, washing,	26 50	
Mary A. Brown, washing,	29 57	
Samuel H. Stevens, “	24 18	
Thomas H. Daley, “	20 50	
C. P. Howard, “	19 89	
H. A. Byrns, “	14 26	
Boston Belting Co., hose,	15 70	
American Fire Hose Manufacturing Co. repairing hose, etc.,	70 10	
Dexter L. Pierce, fire-alarm indicators,	200 00	
<i>Amounts carried forward,</i>	\$19,042 06	\$22,180 20

<i>Amounts brought forward,</i>	\$19,042 06	\$22,180 20
Edwin Rogers, signal boxes, fire- alarm apparatus, etc.,	396 52	
Union Glass Co., battery jars,	39 37	
Abiel Pevey, zincs and copper,	104 85	
Thomas Hollis, blue vitriol, etc.,	186 75	
Howe & French, blue vitriol,	45 57	
James Bartley, naphtha, etc.,	13 21	
R. Warner, squilgers, scrubs, etc.,	11 75	
Munn & Hughes, glass,	4 55	
George W. Prichard, clay,	1 50	
Howe & Flint, hardware, etc.,	23 67	
H. W. Raymond, “	29 57	
Chas. Holmes & Son, hardware, etc.,	4 25	
W. L. Snow, hardware, etc.,	23 77	
J. A. Durrell, “	25 73	
J. E. Parsons, “	3 25	
Highland Foundry Co., repairing furnace,	194 84	
Braman, Dow & Co., repairing regulator,	2 10	
W. O. Barbour & Co., castings,	16 50	
American Tube Works, brass tube,	24 85	
E. B. Badger & Son, copper,	9 71	
American Steam Gauge Co., noz- zle,	5 00	
Walworth Manufacturing Co., nozzle,	5 00	
Silsby Mfg. Co., hydrant connec- tion, etc.,	38 50	
Oscar F. Howe, dust brushes, etc.,	17 81	
Packard & Burrill, feather dust- ers,	1 88	
L. C. Chase & Co., blankets,	23 90	
H. M. Greenough, bedsteads and bedding,	279 50	
<i>Amounts carried forward,</i>	<hr/> \$20,575 96	<hr/> \$22,180 20

APPENDIX TO TREASURER'S AND COLLECTOR'S REPORT. 53

<i>Amounts brought forward,</i>	\$20,575 96	\$22,180 20
Jackson, Caldwell & Co., bedding,	26 10	
Charity Club Bureau, pillow cases,	1 85	
E. J. Stanley, towels,	4 85	
Flynn Bros., Holland shades, etc.,	67 84	
Leander Barber, brooms,	8 50	
John P. Squire & Co., lard oil,	9 00	
George H. Cowdin, drugs,	3 70	
George D. Putnam, jack,	7 00	
John L. Crafts, canvas, ropes, etc.,	68 51	
S. J. Wood, fitting keys,	1 70	
Charles E. Shaw, lock and fixtures,	1 00	
Newell, Harding & Co., badges,	61 00	
James Boyd & Son, scott hitch, etc.,	22 50	
Whittington & Co., bits,	4 00	
M. S. King, shovels,	1 00	
Russell & Fitch, removing night soil,	3 50	
S. M. Spencer, stamp,	85	
Elijah Walker, carpentering,	52 98	
I. C. Jackson, “	14 80	
W. F. Barker, “	8 00	
Geo. W. Trefen, “	45 71	
R. A. Melvin, “	21 60	
R. A. Stevens, “	82 77	
John F. Ayer, lumber,	13 18	
Page & Littlefield, “	4 08	
S. W. Fuller, “	1 73	
Cotter Bros., slating,	19 40	
D. W. McDermott, varnishing,	4 00	
D. P. Bucknam, plastering,	4 50	
Edward Reardon, “	9 50	
D. Frank Titus, whitewashing,	8 00	
J. H. Hollis, painting,	95 50	
A. Fisher, “	27 85	
W. S. Walker, “	21 85	
<i>Amounts carried forward,</i>	<hr/> \$21,304 31	<hr/> \$22,180 20

<i>Amounts brought forward,</i>	\$21,304 31	\$22,180 20
J. Q. Twombly, glazing,	75	
J. T. Cummings, painting,	3 00	
John F. Harrington, upholstering,	32 00	
Suburban Telephone Co., labor,	10 00	
James F. Davlin, plumbing,	33 35	
George Dunbar & Co., ash barrels, etc.,	30 51	
Frederick M. Reed, stationery,	2 40	
Aaron R. Gay, “	5 00	
Doane & Greenough, “	1 50	
Winkley, Thorpe & Dresser, “	11 75	
J. O. Hayden & Co., printing,	41 50	
S. B. Manning, cleaning clocks,	3 50	
H. A. Winship, fire hat,	1 25	
Bishop Bros., shavings,	3 50	
T. Spellman, soap,	20 50	
Sturtevant Bros., use of horse,	8 00	
O. J. Davis, telegraph poles,	50 24	
Geo. K. Paul & Co., steam fitting,	1 58	
Somerville Iron Foundry, castings,	1 92	
Serson Kauffer Battery Co., battery cells,	135 00	
Sewers account, repairing reser- voirs,	173 31	
George F. Day, expressing,	3 10	
Wm. J. London, “	5 50	
Thorpe's Express, “	6 95	
E. R. Perham, “ etc.,	38 36	
Jas. R. Hopkins, paid by him for expressing,	2 00	
Granville Hicks, teaming,	8 00	
J. E. Ashley, agent, ladder,	7 00	
Warner Freeman & Co., salt,	1 50	
J. Tyler Hicks, refreshments,	66 67	
J. Frank Miles, cigars,	6 00	
A. A. Perry, agent, use of Welden hall,	8 00	
<i>Amounts carried forward,</i>	\$22,027 95	\$22,180 20

APPENDIX TO TREASURER'S AND COLLECTOR'S REPORT. 55

<i>Amounts brought forward,</i>	\$22,027 95	\$22,180 20
Ingalls & Kendricken, grates and labor,	14 45	
I. B. Kendall, premium of insurance,	5 00	
Dexter F. Bennett, premium of insurance,	5 00	
H. D. & W. S. Durgin, ice,	24 00	
Abbott & Co., ice,	5 00	
Call-men, extra services,	36 00	
	<hr/>	
	\$22,127 40	
EXCESS AND DEFICIENCY, balance to credit of account,	52 80	
	<hr/>	
		22,180 20
		<hr/> <hr/>

FUNDED DEBT.

Credit.

BALANCE from 1882,	\$1,585,000 00
CASH, received from sale of City Loan Bond No. 465,	\$6,500 00
City Loan Bond No. 466,	50,000 00
Water Loan Bond No. 198,	6,500 00
Water Loan Bond No. 199,	1,000 00
	<hr/>
	64,000 00
	<hr/>
	\$1,649,000 00

Debit.

CASH, paid City Loan Bond No. 349,	\$36,500 00
City Loan Bonds Nos. 353 - 372,	20,000 00
Water Loan Bond No. 36,	7,500 00
	<hr/>
	\$64,000 00
BALANCE to credit in account 1884,	1,585,000 00
	<hr/>
	1,649,000 00
	<hr/> <hr/>

HEALTH DEPARTMENT.

Credit.

APPROPRIATIONS, amount assessed,		\$3,000 00
CASH, received of George I. Vincent,		
permits to keep swine and goats		
and collect grease,	\$292 00	
R. H. Sturtevant, ashes,	80 38	
		372 38
WATER LOAN INTEREST, transferred,		800 00
		\$4,172 38

Debit.

CASH, paid W. H. Brine, inspector of		
board of health,	\$500 00	
Fumigating,	121 50	
P. W. Skinner, fumigating,	186 00	
Highways account, collecting		
ashes,	2,416 94	
Christopher Burke, removing offal,	291 67	
P. W. Skinner, police services,	80 00	
George H. Cowdin, sulphur,	3 15	
Burt & Henshaw, “	11 41	
G. H. Hills & Co., “	1 20	
J. J. Fenelon, peppermint tubes,	11 20	
S. D. Carter, meals,	70 00	
J. M. Davis, milk,	11 95	
J. F. Brine, coal,	4 35	
E. M. Cutter, nursing,	57 14	
Mary Lynch, “	68 58	
Directory for Nurses, furnishing		
nurses,	4 00	
Mary C. Dane, rent,	40 00	
Gage & Bent, bedding,	10 57	
Edward Coliton, groceries,	4 08	
J. O. Hayden & Co., advertising,	80 50	
E. M. Daniels, stationery,	25	
<i>Amounts carried forward,</i>	\$3,974 49	\$4,172 38

APPENDIX TO TREASURER'S AND COLLECTOR'S REPORT. 57

<i>Amounts brought forward,</i>	\$3,974 49	\$4,172 38
Aaron R. Gay & Co., stationery,	56 75	
Wadsworth Bros. & Howland, thermometers, etc.,	39 00	
Thomas Waterman, vaccine virus,	19 00	
Sewer Department account, filling stagnant pool,	4 38	
Maurice Buttimer, examining drains,	4 00	
J. Henry Brown, carpenter work,	10 00	
Sturtevant Bros., use of team, etc.,	14 15	
Nelson & Thompson, hack hire,	6 00	
H. M. Weld, hack hire,	7 00	
L. H. Brown, “	11 00	
E. R. Perham, expressing,	1 00	
E. S. Tobey, post-office box,	3 00	
Sundry persons, burying dead animals,	9 50	
	<hr/>	
	\$4,159 27	
EXCESS AND DEFICIENCY, balance to credit of account,	13 11	
	<hr/>	
		<u>4,172 38</u>

HIGHWAYS.

Credit.

APPROPRIATIONS, amount assessed,		\$32,000 00
CASH, received from health department, removing ashes,	\$2,416 94	
Watering streets account, repair- ing carts and watering,	151 21	
Public park maintenance account, labor and materials,	571 42	
School-house incidentals account, labor, teaming and materials,	97 54	
Miscellaneous account, removing ashes from City Hall,	15 70	
	<hr/>	
<i>Amounts carried forward,</i>	\$3,252 81	<u>\$32,000 00</u>

<i>Amounts brought forward,</i>	\$3,252 81	\$32,000 00
Sewers account, bound stones,	6 00	
Central Hill improvements account,		
labor and teaming,	611 83	
Sidewalks account, edgestones,		
gravel sand, etc.,	185 84	
Water maintenance account,		
crushed stone,	2 50	
Arthur Murley, rent,	64 00	
Thomas Ormand, rent,	72 00	
D. W. Crocker, horse,	45 00	
George Reynolds, horses,	150 00	
C. Bowker, pasturage,	40 00	
George Willard, pasturage,	120 00	
J. Doherty, laborer's pay, not called for,	70	
J. Holland, laborer's pay, not called for,	75	
John P. Prichard, sods sold by him,	4 35	
George McKenna, old materials,	54 87	
H. L. White, filling,	34 50	
H. A. Byrnes, "	6 30	
R. H. Sturtevant, filling,	19 30	
Sears Condit, pasturage,	5 00	
Hill & Langtry, return on bill,	4 67	
George W. Lake, opening for new Church Street,	39 28	
W. A. Muzzey, loam,	10 80	
Edward Ayers, edgestone,	4 23	
Charles H. Porter, bricks and la- bor,	7 19	
Isaac Kendall, opening for new street,	30 52	
James G. Tewksbury, construct- ing driveway,	6 43	
Fulton Obrion, constructing drive- way,	22 19	
Benjamin P. Lovejoy, constructing driveway,	13 63	
<i>Amounts carried forward,</i>	<hr/> \$4,814 69	<hr/> \$32,000 00

APPENDIX TO TREASURER'S AND COLLECTOR'S REPORT. 59

<i>Amounts brought forward,</i>	\$4,814 69	\$32,000 00
E. B. Morgan, constructing drive- way,	10 10	
F. T. Kingman, constructing drive- way,	10 44	
Thomas Gegan, constructing driveway,	3 90	
J. Frank Miles, constructing driveway,	19 95	
T. W. Snow, constructing drive- way,	4 91	
F. F. Raymond, constructing driveway,	4 72	
Michael Casey, constructing drive- way,	6 13	
George E. Taylor, constructing driveway,	7 00	
C. M. Gordon, constructing drive- way,	3 20	
Union Glass Co., constructing driveway,	21 65	
Thomas W. Blaikie, constructing driveway,	7 82	
Emeline T. Coles, constructing driveway,	6 83	
B. H. Weeks, constructing drive- way,	3 44	
A. F. Carpenter, constructing driveway,	14 55	
John Allen, constructing drive- way,	3 48	
Henrietta L. Osgood, constructing sidewalk,	34 48	
James F. Beard, constructing side- walk,	27 35	
John Medina, constructing side- walk,	114 20	
C. T. McGrath, constructing side- walk,	60 45	
<i>Amounts carried forward,</i>	<hr/> \$5,179 29	<hr/> \$32,000 00

<i>Amounts brought forward,</i>	\$5,179 29	\$32,000 00
Almira Shaw, constructing side- walk,	21 00	
Rufus A. Junkins, constructing sidewalk,	15 60	
Thomas Forten, constructing side- walk,	17 29	
Mark Loughton, constructing side- walk,	28 98	
George E. Turner, constructing sidewalk,	18 14	
Mrs. E. Kendall, constructing side- walk,	23 93	
William Daley, constructing side- walk,	21 39	
Sarah F. Nash, constructing side- walk,	19 09	
James C. Stevens, constructing sidewalk,	17 09	
Charles Trull, constructing side- walk,	18 48	
Emeline T. Coles, constructing sidewalk,	33 39	
Luke W. Farmer, constructing sidewalk,	17 33	
Horace E. Tarbox, constructing sidewalk,	17 33	
M. M. F. Tompkins, constructing sidewalk,	27 76	
Francis H. Turner, constructing sidewalk,	17 61	
John J. Wood, constructing side- walk,	11 70	
Isaac W. Nowell, constructing sidewalk,	17 11	
George H. Harlow, constructing sidewalk,	17 33	
Edwin S. Conant, constructing sidewalk,	74 57	
<i>Amounts carried forward,</i>	\$5,614 41	\$32,000 00

<i>Amounts brought forward,</i>	\$5,614 41	\$32,000 00
Quincy A. Vinal, constructing sidewalk,	22 17	
Sturtevant Bros., constructing sidewalk,	19 96	
Mary A. Wessells, constructing sidewalk,	20 51	
Emily J. Lund, constructing sidewalk,	65 55	
Laura A. Haley, constructing sidewalk,	24 05	
Charles B. Sanborn, constructing sidewalk,	15 90	
Laura and Minnie Doane, constructing sidewalk,	17 33	
T. F. McGann, constructing sidewalk,	26 00	
Horatio G. Parker, trustee, constructing sidewalk,	10 83	
Thomas S. Wentworth, constructing sidewalk,	22 75	
John F. Simonds, constructing sidewalk,	15 96	
	<hr/>	5,875 42
		<hr/>
		\$37,875 42

Debit.

CASH, paid laborers,	\$21,241 89	
John P. Prichard, superintendent of streets,	375 00	
F. G. Williams, superintendent of streets,	850 00	
horse keeping,	222 87	
Nathan Tufts & Son, grain,	974 98	
Fulton Obrion, grain,	345 20	
Powers & Co., grain,	160 27	
Proctor Bros., grain,	211 64	
	<hr/>	
<i>Amounts carried forward,</i>	\$24,381 85	\$37,875 42

<i>Amounts brought forward,</i>	\$24,381 85	\$37,875 42
Foster, Weeks & Co., hay,	437 44	
Hewey, Skillings & Co., hay,	10 73	
Peter Edgerly & Co., hay and straw,	472 02	
E. G. Knight, feed,	9 00	
Edward O'Brien, horseshoeing,	86 70	
George McDormand, "	81 98	
J. W. Gerry, "	46 50	
Gerry & Sullivan, "	47 86	
J. W. Blackey, "	1 25	
Chas. W. Ingalls, "	53 40	
W. C. Bradstreet, "	28 50	
Seward Dodge, blacksmithing,	243 66	
F. Dooris, "	107 99	
Cook, Rymes & Co., "	140 54	
George C. Foss, "	4 70	
J. Leland, wheelwright work,	41 82	
A. M. & C. M. Wood, wheel- wright work,	109 53	
B. F. Robinson, wheelwright work,	5 35	
W. W. Sawyer, wheelwright work,	23 34	
John Kennedy, wagon and re- pairs,	309 75	
Hill & Langtry, harness trim- mings,	116 12	
Franklin Crosby, horse blankets,	18 50	
H. S. Lombard, "	39 50	
J. G. Knapp & Co., horse covers,	5 00	
N. L. Pennock, harness work,	19 25	
Joseph A. Pearson, "	22 00	
E. Spalding, "	26 95	
William Mitchell, "	150 95	
A. T. Colburn, "	37 95	
G. M. J. Wilson, "	3 20	
John Holt & Son, "	80	
<i>Amounts carried forward,</i>	\$27,084 13	\$37,875 42

APPENDIX TO TREASURER'S AND COLLECTOR'S REPORT. 63

<i>Amounts brought forward,</i>	\$27,084 13	\$37,875 42
Mark Laighton, carpenter work,	117 76	
C. T. Benson, “	31 25	
George Blackbird, “	6 00	
Thomas P. Ryan, painting,	131 99	
John Birmingham, mason work,	6 25	
A. C. Winning, plastering and whitening,	17 45	
J. Q. Twombly, painting,	5 51	
E. B. Morgan, “	1 50	
S. W. Fuller, lumber,	104 82	
J. F. Ayer, “	56 92	
White, Wiley & Co., paint,	16 24	
Wiley & Richardson, “	73 03	
Wadsworth Bros., and Howland, paint,	28 00	
A. & E. Burton & Co., horse brushes,	20 00	
Peabody & Whitney, brooms,	6 00	
J. S. Paine, bed and bedding,	12 50	
J. J. Giles, bedding,	6 50	
J. H. Brooks, cotton cloth,	3 08	
Dodge, Gilbert & Co., hardware,	22 10	
H. W. Raymond, “	140 67	
J. A. Durell, “	35 73	
M. C. Warren, “	7 25	
W. L. Snow, “	2 45	
George Dunbar & Co., tools,	34 17	
Parker & Gannett, “	6 40	
Underhill Bros., “	8 65	
Farrell Foundry and Machine Co., crusher plates, etc.,	174 40	
Ashcroft Mfg. Co., repairing steam gauge,	2 00	
George Tyler, repairing scraper,	2 00	
Fairbairn Mfg. Co., grate bars,	30 48	
Henry C. Hunt & Co., lacings,	60	
G. Greenleaf & Co., gravel screens,	8 00	
<i>Amounts carried forward,</i>	<u>\$28,203 83</u>	<u>\$37,875 42</u>

<i>Amounts brought forward,</i>	\$28,203 83	\$37,875 42
Fairbanks, Brown & Co., scales,	23 10	
J. Breck & Son, post spoon,	1 25	
Henry T. Jenks, drinking fountain,	150 00	
David W. Lewis, drain pipe,	4 26	
Geo. H. Sampson, powder and fuse,	14 99	
Geo. A. Goodyear, powder and fuse,	4 20	
Samuel Walker & Co., oil,	29 58	
Vacuum Oil Co., “	12 44	
Charles A. Small, oil, etc.,	9 12	
Stickney & Poor, ginger,	4 07	
Charles H. North & Co., salt, etc.,	4 85	
John P. Squire & Co., “	2 46	
Ellis Spavin Cure Co., horse medicine,	10 00	
J. Bartley, oatmeal, etc.,	2 32	
James F. Davlin, plumbing,	6 07	
George W. Prichard, teaming and stone,	436 05	
J. McCarty, teaming and stone,	608 87	
Christopher Burke, teaming and stone,	167 85	
Henry Gray, teaming and stone,	121 58	
C. J. Simpson, stone and sand,	302 40	
William Hamilton, stone,	30 00	
Michael Burns, “	219 00	
George McKenna, “	1 20	
John Turner, paving stone, etc.,	1,895 79	
John Thresher, paving bricks,	407 00	
Sanborn & Hatch, “	46 40	
E. A. Foster, “	367 25	
F. O. Reed and others, gravel,	208 40	
E. Teel & Co., stone drag,	7 00	
Owen Cunningham, teaming,	312 75	
T. Crimmings, “	42 08	
J. F. Elkins, “	44 33	
Martin Gill, “	32 63	
J. McCauley, “	23 63	
<i>Amounts carried forward,</i>	<u>\$33,756 75</u>	<u>\$37,875 42</u>

APPENDIX TO TREASURER'S AND COLLECTOR'S REPORT. 65

<i>Amounts brought forward,</i>	\$33,756 75	\$37,875 42
Middlesex Bleachery and Dye		
Works, ashes,	20 00	
John F. Brine, lime, etc.,	2 50	
Thomas Hollis, drugs,	13 50	
Cheney & Myrick, “	36 51	
John S. Nason, horses,	600 00	
A. K. Wilson, “	225 00	
Sturtevant Bros., “	800 00	
Sturtevant Bros., use of team,	3 00	
Lewis Putnam, veterinary services,	48 00	
James E. Abbott, “	8 00	
W. M. Hadley, fuel,	305 42	
J. O. Hayden & Co., advertising,		
etc.,	14 55	
Aaron R. Gay & Co., stationery,	87 35	
Suburban Telephone Co., rentals,		
etc.,	12 20	
S. J. Wood, filing saws,	4 00	
James Rodden, cutting grass,	22 00	
Water Maintenance Account, labor		
and materials,	3 15	
Water Service Account, service		
pipe labor, etc.,	49 17	
Watering Streets Account, repair-		
ing pipe,	7 00	
Sewers Account, drain pipe,	6 30	
Support of Poor Account, labor,	81 00	
Boston & Providence R.R. Co.,		
freight,	6 50	
Barker & Tibbetts, expressing,	6 62	
W. J. London, “	1 55	
E. R. Perham, “	1 65	
Blackhall's Express, “	75	
Thorpe's Express, “	50	
W. C. Crane, premium of insur-		
ance,	15 00	
<i>Amounts carried forward,</i>	\$36,137 97	\$37,875 42

<i>Amounts brought forward,</i>	\$36,137 97	\$37,875 42
Middlesex Reg. of Deeds, recording,	50	
Town of Medford, half cost of maintaining Middlesex Ave. Bridge,	421 84	
Town of Winchester, taxes,	9 47	
Town of Waltham, “	115 60	
Town of Wakefield, “	23 87	
City of Chelsea, gravel,	46 95	
City of Boston, water rates,	75 67	
M. Canfield, damages,	30 00	
	<hr/>	
	\$36,861 87	
EXCESS AND DEFICIENCY, balance to credit of account,	1,013 55	
	<hr/>	
		<u>37,875 42</u>

HIGHWAY BETTERMENT ASSESSMENTS.

Credit.

CASH, received of sundry persons, assessments,	\$28 77	
BALANCE, to debit in account 1884,	951 21	
	<hr/>	
		\$979 98

Debit.

BALANCE from 1882,	979 98
	<hr/>

INDIGENT SOLDIERS AND SAILORS.

Credit.

APPROPRIATIONS, amount assessed, State of Massachusetts (Indigent Soldiers and Sailors), one-half of amount paid in 1883,	\$500 00
	430 50
	<hr/>
<i>Amount carried forward,</i>	\$930 50

Amount brought forward, \$930 50

Debit.

CASH, paid sundry persons,	\$861 00	
EXCESS AND DEFICIENCY, balance to credit of account,	69 50	
		<u>\$930 50</u>

INTEREST.

Credit.

APPROPRIATIONS, amount assessed,		\$68,000 00
CASH, received on deposits in banks,	\$717 31	
On taxes,	6,243 81	
On tax titles released,	56 00	
Of State Treasurer, National Bank tax,	4,188 92	
Corporation tax,	5,308 23	
Foreign ships tax,	1,201 52	
Boston Five Cents Savings Bank, premium on note,	10 00	
		<u>\$17,725 79</u>
REAL ESTATE LIENS, interest on titles to the city on property deeded for non-payment of taxes,		\$58 74
		<u>\$85,784 53</u>

Debit.

CASH, paid on Funded Debt, \$407,500,		
one year, at 6½ per cent.,	\$26,487 50	
\$113,000, one year at 6 per cent.,	6,780 00	
\$121,000, " " 5½ "	6,655 00	
\$608,500, " " 5 "	30,425 00	
	<u>\$70,347 50</u>	
Less coupons unpaid,	450 00	
<i>Amounts carried forward,</i>	\$69,897 50	<u>\$85,784 53</u>

<i>Amounts brought forward,</i>	\$69,897 50	\$85,784 53
SUNDRY PERSONS, coupons unpaid as above,	450 00	
	<u>\$70,347 50</u>	
CASH, paid on temporary loans : —		
Warren Institution for Savings, on note for \$50,000, six months, at 4 $\frac{3}{4}$ per cent.,	\$1,187 50	
State of Massachusetts, on note for \$50,000, four months, at 4 per cent.,	666 67	
State of Massachusetts, on note for \$60,000, six months, at 4 per cent.,	1,200 00	
Provident Institution for Savings, on note for \$50,000, six months, at 4 per cent.,	1,000 00	
Suffolk Savings Bank, on note for \$40,000, five months, at 4 $\frac{1}{8}$ per cent.,	687 50	
Suffolk Savings Bank, on note for \$35,000, five months, at 4 $\frac{1}{8}$ per cent.,	601 55	
New England Trust Company, on note for \$25,000, four months, at 4 $\frac{1}{4}$ per cent.,	354 17	
Warren Institution for Savings, on note for \$50,000, eight months, at 4 per cent.,	1,333 33	
Warren Institution for Savings, on note for \$25,000, four months, at 4 per cent.,	333 33	
	<u>\$7,364 05</u>	
ON FUNDED DEBT,	\$70,347 50	
ON TEMPORARY LOANS,	7,364 05	
<i>Amounts carried forward,</i>	<u>\$77,711 55</u>	\$85,784 53

<i>Amounts brought forward,</i>	\$77,711 55	\$85,784 53
Water Maintenance, transferred,	3,000 00	
School-House Incidentals, transferred,	3,228 86	
School Teachers' Salaries, transferred,	1,287 89	
	<hr/>	
	\$85,228 30	
EXCESS AND DEFICIENCY, amount to credit of account,	556 23	
	<hr/>	
		<u>\$85,784 53</u>

MISCELLANEOUS.

Credit.

APPROPRIATIONS, amount assessed,		\$4,000 00
REAL ESTATE LIENS, costs on titles to the city, on property deeded for non- payment of taxes and assessments,	\$46 70	
CASH, received costs on property sold and prepared for sale for non-pay- ment of taxes and assessments,	1,204 28	
On Real Estate Liens released,	15 00	
Of sundry persons for liquor li- censes, 13 at \$1.00 each,	13 00	
Of Samuel C. Darling, legal costs (Sanborn vs. City),	58 76	
Of Charles E. Gilman, City Clerk, Marriage certificates, \$131.00		
Junk licenses, 96.00		
Auctioneers' licenses, 16.00		
Licensing dogs, 129.80		
Recording mortgages and assignments, 233 50	606 30	
	<hr/>	
		1,944 04
		<hr/>
		\$5,944 04

Debit.

CASH, paid J. O. Hayden & Co., print- ing and advertising,	\$80 95	
Aaron R. Gay & Co., stationery,	191 05	
	<hr/>	
<i>Amounts carried forward,</i>	\$272 00	\$5,944 04

<i>Amounts brought forward,</i>	\$272 00	\$5,944 04
Cook, Rymes & Co., repairing paper cutter, etc.,	6 25	
Ingalls & Kendricken, repairing boiler,	19 25	
Buff & Berger, adjusting engineers instruments,	12 25	
Wadsworth Bros. & Howland, en- gineers supplies,	69 74	
A. J. Wilkinson & Co., door spring,	9 00	
George Dunbar & Co., tubing,	75	
Harrison, Beard & Co., cleaning settees,	3 50	
R. Sherburne, plate glass,	6 00	
Globe Gas Light Co., lantern,	11 25	
Union Glass Co., globes,	1 25	
F. A. Titus, “	4 50	
Charles Pierce, “ etc.,	34 57	
G. M. D. Fernald, gong,	4 65	
Abram French & Co., water cooler,	13 00	
N. Jennings, pump,	25 00	
Sanborn & Hatch, bricks,	2 00	
D. A. Sanborn, drain pipe,	24 54	
Leander Greeley, engineers stakes,	12 13	
S. M. Spencer, rubber type,	1 60	
A. W. Mitchell, rubber stamp,	1 00	
S. J. Wood, repairing locks, etc.,	7 50	
Murphy, Leavens & Co., dusters,	3 30	
M. C. Warren & Co., hardware,	2 10	
Howe & Flint, “	10 10	
H. W. Raymond, “	6 29	
Jackson, Caldwell & Co., repairing chairs,	10 75	
E. S. Bailey, repairing clock,	1 50	
C. S. Decker, awnings,	12 00	
J. Q. Twombly, shellacing floors, etc.,	61 15	
<i>Amounts carried forward,</i>	\$648 92	\$5,944 04

<i>Amounts brought forward,</i>	\$648 92	\$5,944 04
Elijah Walker, carpenter work,	40 61	
F. Hathaway, “	15 93	
D. Brooks, mason work,	7 75	
W. J. McLane, repairing flag-staff,	65 00	
G. W. Manning, labor on flag-staff,	47 17	
William A. Whitcomb, labor at City Hall,	53 25	
L. M. Maynard, labor at cemetery,	12 00	
R. Maynard, labor at public library,	1 00	
J. H. Brooks, towels, etc.,	7 42	
W. A. Greenough & Co., directory,	14 00	
Thomas Hollis, gum camphor,	1 20	
H. D. & W. S. Durgin, ice,	50 00	
W. M. Hadley, fuel,	251 45	
Cambridge Gas Light Co., gas,	341 32	
James Bartley, soap, etc.,	17 13	
Charles E. Gilman, stamps, etc.,	18 90	
Suburban & New England Tele- phone and Telegraph Co., rent- als, etc.,	117 50	
C. M. Blake, newspapers,	6 75	
E. S. Tobey, rent of post-office box,	6 00	
Perham's Express, expressing,	4 00	
Thorpe's Express, “	3 60	
William J. London, “	3 75	
J. McLane & Co., posting,	25 50	
Henry Shaw, “	15 50	
S. H. Libby, services as auc- tioneer,	25 50	
Frank G. Williams, return of births,	190 25	
Frank G. Williams, affidavit of posting,	95 00	
George Cullis, affidavit of post- ing,	2 00	
Charles B. Stevens, registrar, re- cording deeds,	12 60	
<i>Amounts carried forward,</i>	<hr/> \$2,101 00	<hr/> \$5,944 04

<i>Amounts brought forward,</i>	\$2,101 00	\$5,944 04
H. B. Runey, return of deaths,	39 25	
Wm. A. Flaherty, “	25 25	
C. H. Lockhart, “	17 50	
Patrick H. Rafferty, “	16 25	
Commissioners on contagious diseases among cattle, disposing of glandered horse,	1 00	
Jairus Mann, amount paid by him for expenses, steamer “Empire State,”	45 00	
“ “ for refreshments, City Hall,	130 85	
“ “ for witnesses,	2 40	
“ “ watching at City Hall,	62 50	
“ “ ringing bell, etc.,	6 00	
E. G. Dodge, ringing bell,	3 00	
Fred P. Ham, “	3 00	
E. B. West, “	3 00	
A. M. Sibley, “	7 50	
Silas D. Carter, refreshments,	12 00	
Engineer's assistant, car fares, etc.	25 87	
J. M. Yerrington, services as stenographer,	289 00	
Clerk of Courts, copies of arguments,	51 50	
Samuel C. Darling, legal disbursement,	57 33	
Ira Taylor, constables fees,	26 00	
Ingalls & O'Brien, sheriff's fees,	27 32	
Commonwealth of Massachusetts, one-fourth of amount received for liquor licenses,	3 25	
Ward Officers, 1882,	3 00	
“ 1883,	130 00	
George D. Wildes, use of Clarendon hall for ward purposes,	57 00	
Proprietor of Welden hall, for use of hall,	16 00	
<i>Amounts carried forward,</i>	\$3,161 77	\$5,944 04

<i>Amounts brought forward,</i>	\$3,161 77	\$5,944 04
Estate of Samuel Littlefield, use		
of store for ward purposes,	45 00	
J. M. Coburn, care of ward room,	10 50	
P. H. Keefe, " "	2 00	
Republican Ward and City Com-		
mittee, printing,	8 50	
J. A. Durrell, use of stove, etc.,	9 00	
Highways accounts, removing		
ashes from city hall,	15 70	
C. A. Small, pound-keeper,	25 00	
Noah Harding, sealer of weights		
and measures,	100 00	
F. W. Green, poultry for Thanks-		
giving distribution,	30 59	
Sturtevant Bros, poultry for		
Thanksgiving distribution,	61 98	
H. W. Burgess, poultry for		
Thanksgiving distribution,	76 56	
Ferd. D. Daniels, doorkeeper for		
assessors,	13 75	
W.C. Kinsley Post 139, G.A.		
R., for refreshments,	\$50 00	
W. C. Kinsley Post 139, G.A.		
R., for janitor's services,	5 00	
W. C. Kinsley Post 139, G.A.		
R., for memorial oration,	25 00	
J. Kennedy, for badges,	10 75	
H. Partridge, for flags,	6 25	
L. H. Brown, hacks and		
barges,	53 00	
Arno Quartette, music,	10 00	
S. H. O. Hadley, services,	10 00	
Hall's band, music,	68 00	
Geo. B. King, printing,	2 00	
J. O. Hayden & Co.,		
printing,	10 00	
Thomas Young, flowers,	50 00	
	<hr/>	
	300 00	
<i>Amounts carried forward,</i>	\$3,860 35	\$5,944 04

<i>Amounts brought forward,</i>	\$3,860 35	\$5,944 04
EXCESS AND DEFICIENCY, balance to credit of account,	2,083 69	
	<hr/>	<hr/> <hr/> 5,944 04

NEW STEAM FIRE ENGINE.

Credit.

APPROPRIATIONS, amount assessed,	\$4,000 00
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Debit.

CASH, paid Silsby Mfg. Company, third size steam fire engine and heater,	\$3,825 00	
Committee on Fire Department travelling expenses,	47 00	
	<hr/>	
	\$3,872 00	
EXCESS AND DEFICIENCY, balance to credit of account,	128 00	
	<hr/>	<hr/> <hr/> 4,000 00

NEW FIRE EXTINGUISHERS.

Credit.

APPROPRIATIONS, amount assessed,	\$300 00
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Debit.

CASH, paid George E. Bruorton, agt., portable fire extinguishers and compound,	\$264 50	
EXCESS AND DEFICIENCY, balance to credit of account,	35 50	
	<hr/>	<hr/> <hr/> 300 00

OVERLAY AND ABATEMENT.

Credit.

TAXES, amount added to the amount of taxes assessed, as fractional di- visions, for convenience in the apportionment to be applied to abatements on taxes,		\$8,837 69
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Debit.

TAXES, for abatement on taxes,	\$6,535 24	
BALANCE, to credit in account, 1884,	<u>2,302 45</u>	
		<u>8,837 69</u>

OVERPLUS ON TAX SALES.

Credit.

BALANCE from 1882,		\$189 13
CASH, received over taxes and costs on real estate sold for non-payment of taxes for 1881,		<u>9 00</u>
		\$198 13

Debit.

CASH, paid sundry persons, overplus re- ceived on sale of their estates,	\$96 00	
BALANCE, to credit in account of 1884,	<u>102 13</u>	
		<u>198 13</u>

PROPERTY AND DEBT BALANCE.

Credit.

RENEWAL OF FUNDED DEBT, amount of debt paid in 1883,		\$64,000 00
PUBLIC PROPERTY, acquired during the year 1883,		17,600 00
BALANCE, to debit in account 1884,		<u>412,400 00</u>
<i>Amount carried forward,</i>		\$494,000 00

Amount brought forward, \$494,000 00

Debit.

BALANCE from 1882,	\$430,000 00	
APPROPRIATIONS,	64,000 00	
	<u> </u>	494,000 00
		<u> </u>

PUBLIC PROPERTY.**Credit.**

BALANCE, to debit in account 1884, \$1,172,600 00

Debit.

BALANCE, from 1882,	\$1,155,000 00	
PROPERTY, and Debt Balance,		
property acquired during the		
year,	17,600 00	
	<u> </u>	1,172,600 00
		<u> </u>

PUBLIC PARK.**Credit.**

EXCESS AND DEFICIENCY balance to
credit of account, \$351 32

Debit.

BALANCE from 1882,	351 32
	<u> </u>

PUBLIC PARK MAINTENANCE.**Credit.**

APPROPRIATIONS, amount assessed, \$1,500 00

Debit.

CASH, paid M. W. Murphy, labor, etc.,	\$180 00	
T. F. Crimmings, labor and use of		
horse,	15 50	
T. P. Dickson, use of wagon,	50	
	<u> </u>	
<i>Amounts carried forward,</i>	\$196 00	\$1,500 00

APPENDIX TO TREASURER'S AND COLLECTOR'S REPORT. 77

<i>Amounts brought forward,</i>	\$196 00	\$1,500 00
L. B. Angier, lighting lamps,	35 00	
J. H. Hollis, repairing lamps,	2 00	
Capen, Sprague & Co., oil,	8 26	
Bishop Bros., ladder,	2 00	
J. Q. Twombly, painting,	52 35	
C. A. Legallee, repairing fountain,	1 50	
Parker & Gannett, repairing mower,	24 07	
T. Murphy, shade trees,	46 00	
J. W. Mandell, plants,	35 00	
Joseph Breck & Son, grass seed, etc.,	4 30	
J. A. Durell, hardware,	5 40	
E. R. Perham, expressing,	75	
W. J. London, “	25	
John McAllister, manure,	9 00	
Martin Gill, “	96 00	
D. O'Brien, “	78 00	
J. McCarty, “	91 50	
Sewer Assessments Account, sewer in Chauncey Ave.,	214 52	
Highways Account, labor and materials,	571 42	
	<hr/>	
	\$1,473 32	
EXCESS AND DEFICIENCY, balance to credit of account,	26 68	
	<hr/>	
		1,500 00
		<hr/>

PUBLIC LIBRARY.

	Credit.	
BALANCE from 1882,		\$100 29
APPROPRIATIONS, amount assessed,		1,500 00
CASH received of county treasurer, re- turn on dog licenses, 1882,	\$1,083 63	
Librarian, for fines,	241 56	
“ “ catalogues,	31 30	
	<hr/>	
		1,356 49
		<hr/>
<i>Amount carried forward,</i>		\$2,956 78

Amount brought forward,

\$2,956 78

Debit.

CASH, paid Lockwood, Brooks & Co.,	
books,	\$364 42
Estes & Lauriat, books,	712 30
A. Williams & Co., “	37 18
Cupples, Upham & Co., “	50 63
Little, Brown & Co., “	12 00
Willard Small, “	14 70
N. J. Bartlett, “	4 35
E. W. Doyle, “	2 50
Moses King, “	5 00
Russell & Henderson, “	6 00
B. B. Russell, “	2 50
Clara A. Lynn, “	1 17
Wm. W. White, map,	2 50
C. M. Blake, newspapers,	12 00
Ira Bradley & Co., binding books,	60 17
Rockwell & Churchill, “	10 00
Aaron R. Gay & Co., postage stamps,	15 00
Babb & Stephens, printing slips, cards, etc.,	177 00
J. Harrington & Co., clock,	3 00
N. L. Chamberlain & Co., repairing stamp,	2 00
W. E. Butler, repairing desk,	6 00
W. J. London, expressing,	39 10
Stilphen & Co., “	2 75
W. C. Crane, premium of insurance,	18 75
H. A. Adams, librarian,	700 00
Lizzie Stevens, assistant-librarian,	273 00
Georgette Colman, “	217 91
Lucia Manning, “	49 50
Ida Fillebrown, “	36 40
W. Crooker, “	30 50
	<hr/>
	\$2,868 33
BALANCE to credit in account, 1884,	88 45
	<hr/>

2,956 78

POLICE.

Credit.

APPROPRIATIONS, amount assessed,	\$22,500 00
CASH, received of Herbert A. Chapin, clerk of the court, for officers' fees, fines, etc.,	1,889 10
Suburban Telephone Company, re- turn on bill,	1 10
	<hr/>
	\$24,390 20

Debit.

CASH, paid M. C. Parkhurst, chief,	\$1,500 00	
R. R. Perry, captain,	1,200 00	
Samuel B. Dow, sergeant,	975 00	
C. C. Folsom, “	975 00	
S. A. Brown, patrolman,	907 50	
Geo. W. Bean, “	912 50	
Geo. A. Bodge, “	912 50	
N. F. Caswell, “	887 50	
C. C. Cavanagh, “	912 50	
I. S. Campbell, “	912 50	
G. H. Carlton, “	887 50	
E. M. Carter, “	632 50	
Albert Fiske, “	912 50	
J. E. Fuller, “	912 50	
John Hafford, “	912 50	
M. H. Kingsley, “	912 50	
Dennis Kelley, “	912 50	
Ivan Loughton, “	912 50	
Howard Lowell, “	262 50	
Edward McGarr, “	905 00	
J. W. Oliver, “	912 50	
S. C. Rollins, “	912 50	
F. W. Slade, “	902 50	
A. L. Staples, “	902 50	
P. W. Skinner, “	862 50	
	<hr/>	
<i>Amounts carried forward,</i>	\$22,750 00	\$24,390 20

<i>Amounts brought forward,</i>	\$22,750 00	\$24,390 20
Geo. L. Smith, patrolman,	15 00	
J. B. Young, “	20 00	
Geo. Smith, “ (special,)	6 00	
Peter Savage, “ (special,)	4 00	
M. C. Parkhurst, lock-up keeper,	100 00	
Paid by him for man measure,		
etc.,	8 13	
Albert Fiske, car fares, etc.,	1 45	
F. W. Slade, “	5 70	
Dennis Kelley, “	8 00	
A. L. Staples, “	4 17	
John Hafford, “	1 00	
C. C. Folsom, transportation of		
prisoners, etc.,	45 19	
C. C. Cavanagh, transportation of		
prisoners, etc.,	8 29	
N. F. Caswell, transportation of		
prisoners, etc.,	5 75	
R. Keefe, photographing prisoners,	8 00	
Silas D. Carter, meals,	6 00	
Lambert & Warner, police ambu-		
lance,	75 00	
H. W. Raymond, horse cover,	5 00	
J. H. Skinner, harness,	30 00	
N. L. Pennock, repairing equip-		
ments,	6 60	
Guild & Delano, repairing badges,	1 25	
James G. Davis & Co., equipments,	9 85	
Scoville Mfg. Co., gilt buttons,	9 00	
Union Glass Co., lanterns,	12 00	
O. Nowell, speaking tubes,	17 86	
C. M. Blake, newspapers,	18 75	
J. O. Hayden & Co., printing,	29 00	
A. L. Haskell & Co., “	2 00	
M. R. Warren, stationery,	41 50	
Little, Brown & Co., law books,	85 00	
A. L. Sanborn, horse-keeping,	234 64	
<i>Amounts carried forward,</i>	\$23,574 13	\$24,390 20

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<i>Amounts brought forward,</i>	\$23,574 13	\$24,390 20
Ganong & Buxton, horse-shoeing,	16 75	
“ “ repairing wagon,	28 50	
George C. Ward, repairing wagon,	6 00	
L. H. Brown, hack hire,	48 00	
H. M. Weld & Co., hack hire,	2 00	
W. J. London, expressing,	75	
Charles Williams, Jr., telephone apparatus,	3 37	
Suburban Telephone Co., rentals, messages, etc.,	63 30	
Sturtevant Bros., cheese, etc.,	3 93	
Sarah Keith, washing,	29 28	
H. D. & W. S. Durgin, ice,	30 00	
Doctors Bryant & White, profes- sional services,	4 00	
Doctor W. A. Bell, professional services,	4 00	
Doctor R. L. Lane, professional services,	2 00	
	<hr/>	
	\$23,816 01	
EXCESS AND DEFICIENCY, balance to credit of account,	574 19	
	<hr/>	
		<u>24,390 20</u>

POLICE STATION INCIDENTALS.

Credit.

APPROPRIATIONS, amount assessed,		\$1,800 00
CASH, received of —		
Somerville Police Association, use of hall,	\$30 00	
Washington Council, use of hall,	24 00	
Professor Haartz, use of hall,	4 00	
Woman's State Relief Corps, use of hall,	5 00	
First Universalists Society, use of hall,	36 00	
	<hr/>	
<i>Amounts carried forward,</i>	\$99 00	\$1,800 00

<i>Amounts brought forward,</i>	\$99 00	\$1,800 00
C. H. Folsom, use of hall,	10 00	
G. W. Gardner, use of hall,	6 00	
Frank H. Adams, use of hall,	20 00	
J. P. Burnett, use of hall,	7 00	
Somerville Charity Club, use of hall,	20 00	
Mrs. Chandler, use of hall,	78 00	
Ancient Order of Hibernians, use of hall,	24 00	
Mrs. Douglas Frazar, use of hall,	10 00	
Somerville Rowing Association, use of hall,	26 00	
St. Joseph's T. A. Society, use of hall,	42 00	
Woman's Christian Temperance Union, use of hall,	10 00	
Somerville Co-operative Bank, use of hall,	27 00	
Willard C. Kingsley Post 139, G. A. R., use of hall,	25 00	
Union Associates, use of hall,	20 00	
Prospect Council, No. 11, A. L. of H., use of hall,	50 00	
Stella Ames, use of hall,	15 00	
Washington U. D., Camp No. 6, I. O. of O. F., use of hall,	46 00	
Thomas Miller and others, use of hall,	197 50	
United Workmen, use of hall,	10 00	
Ancient Order of Workmen, use of hall,	9 00	
Rev. N. K. Bishop, use of hall,	20 00	
James B. Hardy, use of hall,	110 00	
F. M. Barrows, use of hall,	40 00	
Republican W. and C. Committee, use of hall,	10 00	
Charles L. Fitzhenry, use of hall,	7 00	
<i>Amounts carried forward,</i>	<hr/> \$938 50	<hr/> \$1,800 00

APPENDIX TO TREASURER'S AND COLLECTOR'S REPORT. 83

<i>Amounts brought forward,</i>	\$938 50	\$1,800 00
High School Association, use of hall,	5 00	
		<hr/> 943 50
		<hr/> \$2,743 50

Debit.

CASH, paid William D. Hayden, janitor,	\$764 00	
Oil for carburetter,	180 00	
Cambridge Gas Light Co., gas,	246 80	
W. M. Hadley, fuel,	392 77	
L. Arnold, carpenter work,	42 95	
F. Hathaway, " "	97 53	
John C. Newcomb, repairing chairs,	1 75	
Harrison, Beard & Co., repairing chairs,	18 00	
J. Q. Twombly, painting,	7 00	
J. C. Dyer, " "	345 25	
James F. Davlin, plumbing,	6 00	
C. A. Legallee, " "	15 73	
C. Sullivan, " "	75	
D. Brooks, mason work,	3 00	
D. P. Bucknam, whitening,	17 50	
A. A. Sanborn, steam fitting,	11 60	
A. Bachlor, gas fitting,	7 75	
L. C. Seavey, slating,	7 14	
Wm. Hall & Co., repairing safe,	3 00	
Thomas F. McGann, brass railing,	65 00	
A. J. Wilkinson & Co., door check,	3 25	
H. W. Raymond, hardware, etc.,	29 30	
Howe & Flint, " "	19 42	
Jos. J. Giles, upholstery, etc.,	18 85	
Union Glass Co., globes,	2 50	
E. S. Bailey, repairing clock,	2 50	
S. J. Wood, fitting keys,	1 00	
<i>Amounts carried forward,</i>	<hr/> \$2,310 34	<hr/> \$2,743 50

<i>Amounts brought forward,</i>	\$2,310 34	\$2,743 50
W. Schuebeler, towels,	4 60	
Jackson, Caldwell & Co., moving piano,	9 00	
A. M. Prescott, teaming,	2 00	
Sturtevant Bros., matches, etc.,	11 18	
J. O. Hayden & Co., printing,	3 00	
W. C. Crane, premium of insurance,	20 00	
City of Boston, water rates,	19 67	
	<hr/>	
	\$2,379 79	
EXCESS AND DEFICIENCY, balance to credit of account,	363 71	
	<hr/>	
		<hr/> <hr/> 2,743 50

PRINTING AND STATIONERY.

Credit.

APPROPRIATIONS, amount appropriated,		\$3,000 00
CASH, received of Wellington & Needham, advertising hearings,	\$3 60	
Peter F. Forg, advertising hearings,	1 50	
E. G. Mansfield, advertising hearings,	1 50	
	<hr/>	
		6 60
		<hr/>
		\$3,006 60

Debit.

CASH, paid Aaron R. Gay & Co., stationery,	\$439 84	
J. O. Hayden, printing and stationery,	291 70	
J. O. Hayden & Co., advertising,	497 90	
“ annual reports,	754 56	
J. O. Hayden, voting lists and warrants,	279 80	
	<hr/>	
<i>Amounts carried forward,</i>	\$2,263 80	\$3,006 60

APPENDIX TO TREASURER'S AND COLLECTOR'S REPORT. 85

<i>Amounts brought forward,</i>	\$2,263 80	\$3,006 60
Coburn Brothers, printing,	16 00	
Rand & Avery, printing,	100 00	
C. M. Blake, newspapers,	1 50	
	<hr/>	
	\$2,381 30	
EXCESS AND DEFICIENCY, balance to		
credit of account,	625 30	
	<hr/>	
		<u>3,006 60</u>

REAL ESTATE LIENS.

Credit.

CASH, received of sundry persons for		
tax titles released,		\$252 93
BALANCE, to debit in account of 1884,		3.729 86
		<hr/>
		\$3,982 79

Debit.

BALANCE, from 1882,	\$3,327 45	
TAXES, titles deeded to the city for		
non-payment of taxes,	549 90	
INTEREST, on titles deeded to the city		
for non-payment of taxes,	58 74	
MISCELLANEOUS, costs on titles deeded		
to the city for non-payment of		
taxes,	46 70	
	<hr/>	
		<u>3,982 79</u>

RENEWAL OF FUNDED DEBT.

Credit.

APPROPRIATIONS, amount authorized		
by loans,		\$64,000 00

Debit.

PROPERTY AND DEBT BALANCE, amount		
of funded debt paid in 1883,		64,000 00
		<hr/>

SINKING FUND CONTRIBUTIONS.

Credit.

APPROPRIATIONS, amount assessed,	\$45,525 00
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Debit.

CASH, paid commissioners of the sinking funds,	45,525 00
	<u>45,525 00</u>

STATE OF MASSACHUSETTS.

Credit.

TAXES, amount assessed for State tax,	\$19,725 00
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Debit.

CASH, paid State Treasurer, State tax,	19,725 00
	<u>19,725 00</u>

STATE OF MASSACHUSETTS.—STATE AID.

Credit.

CASH, received of State Treasurer,	\$4,459 75
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BALANCE, Dec. 31, 1883, due from State Dec. 1, 1884, to debit in account 1884,	3,654 50
	<u>3,654 50</u>

	\$8,114 25
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Debit.

BALANCE, from 1882,	\$4,312 75	
STATE AID, amount paid in 1883, as per account,	3,801 50	
	<u>3,801 50</u>	
		<u>8,114 25</u>

STATE OF MASSACHUSETTS.—INDIGENT SOLDIERS
AND SAILORS.

Credit.

CASH, received of State Treasurer,	\$493 00
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BALANCE, December 31, 1883, due from State Dec. 1, 1884, to debit in account, 1884,	418 50
	<u>418 50</u>

Amount carried forward,	\$911 50
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APPENDIX TO TREASURER'S AND COLLECTOR'S REPORT. 87

Amount brought forward, \$911 50

	Debit.	
BALANCE from 1882,	\$481 00	
INDIGENT SOLDIERS AND SAILORS, one half of amount paid in 1883, as per account,	430 50	
		<u>911 50</u>

STATE AID.

	Credit.
STATE OF MASSACHUSETTS, STATE AID, amount paid in 1883, charged to State,	\$3,801 50

	Debit.
CASH, paid monthly, pay rolls for aid,	<u>3,801 50</u>

SUNDRY PERSONS.

	Credit.
BALANCE from 1882,	\$1,110 10
INTEREST, Coupons due and payable,	450 00
	<u>\$1,560 10</u>

	Debit.
CASH, paid sundry persons, amounts to their credit Dec. 31, 1882,	\$1,075 00
BALANCE to credit in account, 1884,	485 10
	<u>1,560 10</u>

SALARIES.

	Credit.
APPROPRIATIONS, amount assessed,	\$18,700 00

	Debit.	
CASH, paid John A. Cummings, Mayor,	\$1,000 00	
Charles E. Gilman, city clerk,	2,100 00	
		<u>\$18,700 00</u>
<i>Amounts carried forward,</i>	\$3,100 00	\$18,700 00

<i>Amounts brought forward,</i>	\$3,100 00	\$18,700 00
John F. Cole, city treasurer and collector of taxes,	3,000 00	
George A. Kimball, city engineer,	2,000 00	
Samuel C. Darling, city solicitor,	1,000 00	
T. M. Durell, city physician,	800 00	
Douglas Frazar, city auditor,	300 00	
Douglas Frazar, clerk of common council,	200 00	
George I. Vincent, clerk of assessors and committees,	1,700 00	
William P. Mitchell, assistant clerk of committees,	1,000 00	
Jairus Mann, city messenger,	1,400 00	
Aaron Sargent, treasurer of commissioners of sinking funds,	200 00	
David A. Sanborn, inspector of buildings,	200 00	
Thomas Cunningham, assessor,	500 00	
Stillman H. Libby, “	500 00	
George W. Hadley, “	500 00	
Daniel Brooks, assistant assessor,	200 00	
Benjamin F. Thompson, assistant assessor,	200 00	
Reuben A. Melvin, assistant assessor,	200 00	
William A. Muzzey, assistant assessor,	200 00	
Engineers' Assistants,	1,199 31	
“ “ services on survey of the city,	299 31	
	<hr/>	
	\$18,698 62	
EXCESS AND DEFICIENCY, balance to credit of account,	1 38	
	<hr/>	
		18,700 00
		<hr/>

STREET LIGHTS.

Credit.

APPROPRIATIONS, amount assessed,		\$7,500 00
CASH, received of L. W. Jones and others, for lamp post,	\$20 00	
Robert Duddy and others, for lamp post,	20 00	
Ceylon Holt, for lamp post,	18 00	
W. B. Savage, for “	20 00	
Harrison Aldrich, for “	20 00	
John O'Brien and others, for lamp post,	60 00	
T. J. Priest and others, for lamp post,	20 00	
Leonard Arnold and others, for lamp post,	20 00	
George E. Gilkey, damage to lamp post,	16 96	
B. H. Weeks, damage to lamp post,	18 00	
School Fuel account, advertising,	7 88	
		240 84
		<u>\$7,740 84</u>

Debit.

CASH, paid Cambridge Gas Light Company, gas,	\$1,905 35	
Labor on pipes, etc.,	115 71	
Charlestown Gas Co., gas,	1,615 33	
Labor on pipes, etc.,	212 47	
Globe Gas Light Co., lighting and care of lamps, etc.,	190 32	
Maverick Oil Co., naphtha,	106 95	
Hugh Blackwell, lighting and care of lamps,	1,962 25	
Setting lamp posts, etc.,	46 75	
W. H. Blackwell, repairing lamps,	45 40	
<i>Amounts carried forward,</i>	<u>\$6,200 53</u>	<u>\$7,740 84</u>

<i>Amounts brought forward,</i>	\$6,200 53	\$7,740 84
J. A. Durrell, repairing, etc.,	33 18	
J. H. Hollis, painting,	13 00	
Howe & Flint, repairing lamps, etc.,	53 87	
M. M. Pigott & Son, putty,	30	
A. H. Weld & Son, alcohol,	23 80	
Williams & Butler, oil cans,	3 25	
Seward Dodge, blacksmithing,	2 50	
G. W. & F. Smith, Iron Co., lamp posts and frames,	114 00	
Nathan Tufts, lanterns, etc.,	77 38	
A. H. Watkins, eclipse attach- ments, etc.,	247 88	
Cornelius Dinevan, extinguishing poles,	1 52	
Bishop Bros., ladders,	15 84	
J. O. Hayden & Co., printing and advertising,	18 00	
Boston Daily Advertiser, adver- tising,	7 88	
Hills, Turner & Co., glass,	40 62	
Geo. T. Day, expressing,	2 75	
Wm. J. London, “	15 00	
	<hr/> \$6,871 30	
EXCESS AND DEFICIENCY, balance to credit of account,	869 54	
	<hr/>	<hr/> 7,740 84

SUPPORT OF POOR.

Credit.

APPROPRIATION, amount assessed,		\$14,000 00
CASH, received for support of paupers —		
Of city of Boston,	\$666 37	
“ Malden,	36 50	
“ Chelsea,	48 20	
“ Lawrence,	23 95	
	<hr/>	
<i>Amounts carried forward,</i>	\$775 02	\$14,000 00

<i>Amounts brought forward,</i>	\$775 02	\$14,000 00
Of city of Salem,	10 50	
" Cambridge,	13 43	
" Newton,	12 85	
Of town of Natick,	75 80	
" Woburn,	28 80	
" Wakefield,	6 00	
" Arlington,	111 35	
" Manchester,	27 95	
" Gardner,	62 25	
" Sandwich,	26 55	
State of Massachusetts, support of State paupers,	210 28	
State of Massachusetts, tempo- rary relief,	255 05	
State of Massachusetts, burial of paupers,	130 00	
Highways account, labor,	81 00	
W. F. Frazier, rent bills not called for,	17 50	
Lorenzo Marrett, rent bills not called for,	12 00	
		1,856 33
WATER LOAN INTEREST, transferred,		350 00
		<hr/> \$16,206 33

Debit.

CASH, paid State of Massachusetts, support of paupers,	305 10	
Danvers Lunatic Hospital, sup- port of paupers,	1,791 04	
Worcester Lunatic Hospital, sup- port of paupers,	1,173 23	
Taunton Lunatic Hospital, sup- port of paupers,	188 44	
Northampton Lunatic Hospital, support of paupers,	178 61	
		<hr/>
<i>Amounts carried forward,</i>	\$3,636 42	\$16,206 33

<i>Amounts brought forward,</i>	\$3,636 42	\$16,206 33
Asylum for Chronic Insane, support of paupers,	314 50	
Massachusetts General Hospital, support of paupers,	77 00	
Charles J. Adams, House of Correction, support of sundry persons,	41 14	
City of Boston, support of paupers,	809 99	
City of Cambridge, support of paupers,	202 89	
City of Lowell, support of paupers,	231 66	
City of Lawrence, support of paupers,	96 00	
City of Newburyport, support of paupers,	86 43	
City of Taunton, support of paupers,	58 17	
City of Chelsea, support of paupers,	12 83	
Town of Medford, support of paupers,	58 00	
Town of Peabody, support of paupers,	142 59	
Town of Holliston, support of paupers,	252 00	
Town of Melrose, support of paupers,	215 66	
Town of Lexington, support of paupers,	232 00	
Town of Natick, support of paupers,	105 93	
Town of Braintree, support of paupers,	46 58	
Town of Canton, support of paupers,	114 02	
Town of Barnstable, support of paupers,	30 00	
<i>Amounts carried forward,</i>	<u>\$6,763 81</u>	<u>\$16,206 33</u>

<i>Amounts brought forward,</i>	\$6,763 81	\$16,206 33
Town of Andover, support of		
paupers,	28 00	
Belknap & Boynton, provisions,	421 46	
Chas. S. Butters, “	301 15	
Chas. H. North & Co., “	42 06	
Sturtevant Bros., provisions and		
groceries,	199 73	
Ward & Johnson, provisions and		
groceries,	10 11	
P. T. O'Brien, provisions and		
groceries,	42 50	
T. N. Snow & Co., potatoes,	87 15	
P. Curtis, fish,	138 50	
Mansur & Whiting, crackers,	151 07	
E. S. Conant & Co., groceries,	221 52	
Roberts, Cochran & Co., groceries,	262 69	
Charles A. Small, “	116 10	
R. J. Purcell, “	18 16	
L. Stockbridge, “	7 72	
Simon White, “	8 00	
H. W. Burgess, “	1 50	
Geo. H. Salloway, “	12 50	
Mrs. Jennings, “	30 00	
James Lynch, “	12 00	
Whitaker & Cheney, “	43 35	
Geo. H. Hills & Co., “	6 75	
N. H. Reed, “	9 00	
Edward Coliton, “	9 82	
Martin L. King, “	3 16	
Chase & Sanborn, tea,	22 00	
Page, Kidder & Co., flour,	65 00	
Hewey, Skillings & Co., meal,	17 00	
Philip Eberle, boots and shoes,	207 80	
Harry Thorpe, “ “	47 00	
W. J. Emerson, “ “	21 00	
T. F. Kelley, “ “	4 25	
J. H. Brooks, dry goods,	49 75	
<i>Amounts carried forward,</i>	\$9,381 61	\$16,206 33

<i>Amounts brought forward,</i>	\$9,381 61	\$16,206 33
J. W. Brine, dry goods,	19 07	
W. Schuebeler, “	5 80	
Jackson, Caldwell & Co., bedding,	6 00	
J. J. Giles, bedding,	25 24	
W. M. Hadley, fuel,	917 38	
J. F. Brine, “	19 65	
J. E. Perkins, “	24 05	
J. J. Underhill, “	36 25	
Wm. Littlefield, board of paupers,	192 00	
Eugene Shea, “ “	126 76	
Martin Toye, “ “	110 26	
Mrs. John Kelley, “ “	156 42	
Thomas Garvin, “ “	156 40	
Abner Blaisdell, “ “	120 00	
S. H. M. Heard, “ “	108 12	
Wm. Holbrook, “ “	60 00	
Hugh Cooper, “ “	19 71	
Jesse Abbott, “ “	153 00	
Mrs. H. Blackwell, “ “	18 50	
Mary Sullivan, “ “	73 03	
Annie McGuirk, “ “	7 00	
Mrs. Hill, “ “	12 00	
Almira Wilson, “ “	48 00	
Mrs. C. Lowe, “ “	5 00	
John Roonan, “ “	5 00	
Mary E. Nowlin, board and rent,	577 23	
Frank Eagan, “ “	125 50	
John I. Louden, rent,	60 00	
James Lynch, “	52 00	
O. S. Knapp, “	60 00	
Charles O'Neil, “	101 00	
Zylpha Shaw, “	66 00	
M. J. McCarron, “	48 00	
Heirs of Hugh Gallagher, rent,	48 00	
Sarah Gill, rent,	36 00	
E. Clifford, “	66 00	
W. F. Frazier, rent,	35 00	
<i>Amounts carried forward,</i>	<hr/> \$13,080 98	<hr/> \$16,206 33

<i>Amounts brought forward,</i>	\$13,080 98	\$16,206 33
Hebron Libby, rent,	48 00	
Jolin Malay, “	12 43	
J. McCarty, “	65 00	
Lorenzo Marrett, “	24 00	
Maurice Terry, “	60 00	
Mrs. Ash, “	51 42	
Wm. Anderson, “	22 80	
Bridget Conlan, “	21 00	
Augustus Russ, “	15 00	
H. H. Barber, “	18 00	
James H. Wall, “	23 00	
Elizabeth Tehan, rent,	13 53	
Mrs. Neagle, board of pauper,	70 85	
Hannah B. Mayo, “ “	51 54	
Catherine Callaghan, nursing,	11 07	
Mrs. Wiggin, nursing,	16 00	
George McKenna, transportation of paupers,	5 00	
Leach & Green, crutches and truss,	5 00	
Howe & Flint, dippers,	6 00	
H. W. Raymond, saw horses, etc.,	5 10	
Chas. Holmes & Son, stove pipe, etc.,	75	
Charles O'Neil, soap,	48 78	
Rand & Byam, “	20 16	
J. O. Hayden & Co., printing, etc.,	17 75	
Aaron R. Gay & Co., stationery,	25 13	
S. J. Wood, filing saws,	6 00	
W. J. London, expressing,	3 70	
Thorpe's Express, “	10 30	
Steele & Webster, teaming,	6 36	
H. M. Weld & Co., hack hire,	5 00	
L. H. Brown, “	28 50	
A. L. Sanborn, “	10 00	
S. D. Carter, meals,	9 00	
Doctor J. F. Couch, medical at- tendance,	25 00	
<i>Amounts carried forward,</i>	\$13,842 15	\$16,206 33

<i>Amounts brought forward,</i>	\$13,842 15	\$16,206 33
Doctor J. B. Gould, medical attendance,	2 00	
H. B. Runey, undertaker's services,	172 00	
W. A. Flaherty, undertaker's services,	129 00	
P. H. Rafferty, undertaker's services,	39 00	
Dexter F. Bennett, premium of insurance,	7 50	
City of Boston, water rates,	5 00	
Thomas Cunningham, teaming, fuel, etc.,	357 65	
Thomas Cunningham, overseer of the poor,	300 00	
Thomas Cunningham, secretary of overseers of the poor,	200 00	
Ansel Lewis, overseer of the poor,	300 00	
“ storekeeper,	300 00	
“ transportation of paupers,	5 50	
F. G. Williams, overseer of the poor,	137 50	
J. J. Underhill, overseer of the poor,	162 50	
	<hr/>	
	\$15,959 80	
EXCESS AND DEFICIENCY, balance to credit of account,	246 53	
	<hr/>	
		<u>\$16,206 33</u>

SEWERS.

Credits.

APPROPRIATIONS, amount assessed,		9,600 00
CASH, received of Francis Gallagher, cleaning drain,	\$2 00	
William O'Gara, part cost of drain,	8 43	
	<hr/>	
<i>Amounts carried forward,</i>	\$10 43	<u>\$9,600 00</u>

APPENDIX TO TREASURER'S AND COLLECTOR'S REPORT. 97

<i>Amounts brought forward,</i>	\$10 43	\$9,600 00
Patrick Maloon, laborer's pay not called for,	1 75	
Jane Clancey, part cost of drain,	14 32	
Charles River Street Railway Co., half cost of catch basin,	58 53	
Charles River Street Railway Co., catch basin,	15 94	
Wm. H. Thompson, catch-basin covers,	10 00	
Maurice Buttimer, water tub,	2 00	
Trustees Massachusetts General Hospital, third annual payment for permission to enter Fitchburg-Street sewer,	50 00	
School-house incidentals account, repairing drain,	32 93	
School-house incidentals account, repairing vault,	9 55	
Health department account, filling stagnant pool,	4 38	
Fire Department Account, iron covers, and repairing reservoir,	173 31	
Sidewalk Account, edgestones,	11 60	
Highways, drain pipe,	6 30	
	<hr/>	401 04
Sewer assessments levied,		7,879 90
		<hr/>
		\$17,880 94

Debit.

CASH, paid laborers,	\$3,759 69	
David W. Lewis, pipe, etc.,	292 51	
Charles Holmes & Son, pipe, etc.,	867 81	
George D. Goodrich & Co., pipe, etc.,	479 59	
Portland Stone Ware Co., pipe, etc.,	198 88	
Osgood & Hart, castings,	272 22	
	<hr/>	
<i>Amounts carried forward,</i>	\$5,870 70	\$17,880 94

<i>Amounts brought forward,</i>	\$5,870 70	\$17,880 94
W. O. Barbour & Co., castings,	55 00	
D. Roby & Co., cement,	163 90	
John Turner & Co., paving,	55 13	
A. Parker, stone,	200 00	
Sanborn & Hatch, brick,	64 00	
E. A. Foster, “	303 00	
H. W. Raymond, hardware,	30 11	
Howe & Flint, pipe, hardware, etc.,	1,237 40	
Patrick Terry, bricks and labor,	18 60	
D. A. Sanborn, sand and mortar bed,	7 50	
C. J. Simpson, sand,	40	
E. D. Sawyer & Co., lumber,	1 63	
Bagnall & Loud, wheels and pulley,	2 40	
J. Leland, cesspool covers, etc.,	4 85	
Seward Dodge, blacksmithing,	14 23	
Leander Greeley, carpenter work,	28 11	
Maurice Buttimer, mason work,	29 00	
James Bartley, oil, etc.,	3 32	
Hall Rubber Co., rubber boots, etc.,	16 00	
Harry Thorpe, rubber boots, etc.,	31 50	
J. O. Hayden & Co., printing and advertising,	79 40	
Aaron R. Gay & Co., stationery,	15 25	
F. J. Barnard & Co., binding plans,	14 00	
Barker & Tibbets, expressing,	35	
City of Boston, water rates,	25 00	
Highways Account, bound stones,	6 00	
Water Maintenance Account, la- bor and materials,	11 50	
Fire Department Account, hose and couplings,	64 00	
City of Cambridge, five-ninths of expense of cleaning outlet of Bridge street sewer,	1,662 56	
<i>Amounts carried forward,</i>	<u>\$10,014 84</u>	<u>\$17,880 94</u>

<i>Amounts brought forward,</i>	\$10,014 84	\$17,880 94
Charles A. Mongan, constructing sewer in Summer street,	150 25	
Charles A. Mongan, constructing sewer in Chester street,	406 80	
Charles A. Mongan, constructing sewers in Joseph, Adrian and Marian streets,	716 21	
Charles A. Mongan, constructing sewer in Crescent street,	298 09	
Maurice Buttimer, constructing sewer in Moore street,	481 17	
Maurice Buttimer, constructing sewers in Grant, Sewall and Temple streets,	2,588 00	
Maurice Buttimer, constructing sewer in Elm street,	445 82	
John J. Dorey, constructing sewer in Central street and Highland Avenue,	537 48	
John J. Dorey, constructing sewer in Jaques street and Chauncey Avenue,	350 67	
Dennis O'Connell, on account, constructing sewer in Oakland Avenue and School street,	400 00	
Richard Falvey, constructing sewer in Cross street,	128 62	
Labor,	3 00	
Timo. J. Gunning, constructing sewer in Boston street,	222 21	
E. H. Kilfield, inspecting sewers,	39 00	
	<hr/>	
	\$16,782 16	
SEWER ASSESSMENTS, abated,	6 21	
EXCESS AND DEFICIENCY, balance to credit of account,	1,092 57	
	<hr/>	
		17,880 94
		<hr/> <hr/>

SEWER ASSESSMENTS.

Credit.

CASH, received of sundry persons, assessments,		\$9,792 46
SEWERS, abatements on assessments,		6 21
BALANCE, to debit in account 1884,		5,946 64
		<hr/>
		\$15,745 31

Debit.

BALANCE, from 1882,	\$7,865 41	
SEWERS, assessments levied,	7,879 90	
	<hr/>	15,745 31
		<hr/>

SIDEWALKS.

Credit.

APPROPRIATIONS, amount assessed,		\$3,000 00
CASH, received of Boston & Lowell Railroad, half cost of sidewalk,		14 41
SIDEWALK ASSESSMENTS, assessments levied,		2,446 66
		<hr/>
		\$5,461 07

Debit.

CASH paid laborers,	\$211 22	
John Turner & Co., edgestones, etc.,	4,301 51	
John Thresher, paving brick,	133 25	
Sanborn & Hatch, “	9 60	
S. W. Fuller, lumber,	9 82	
Sewers Account, edgestones,	11 60	
Highways Account, labor and material,	185 84	
J. O. Hayden & Co., advertising,	63 60	
Boston Daily Advertiser, “	9 00	
R. M. Pulsifer & Co., “	13 13	
	<hr/>	
<i>Amounts carried forward,</i>	\$4,948 57	\$5,461 07

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<i>Amounts brought forward,</i>	\$4,948 57	\$5,461 07
Middlesex Reg. of Deeds, recording,	50	
	<hr/> \$4,949 07	
EXCESS AND DEFICIENCY, balance to credit of account,	512 00	
	<hr/>	<hr/> 5,461 07

SIDEWALK ASSESSMENTS.

Credit.

CASH, received of sundry persons, assessments,		\$2,619 12
BALANCE, to debit in account 1884,		3,140 38
		<hr/> \$5,759 50

Debit.

BALANCE, from 1882,	\$3,312 84	
SIDEWALKS, assessments levied,	2,446 66	
	<hr/>	<hr/> 5,759 50

SCHOOL CONTINGENT.

Credit.

APPROPRIATIONS, amount assessed,		\$9,000 00
CASH, received for tuition of non-resident pupils : —		
Of Francis Hollis,	\$78 00	
Rev. Joshua Coit,	60 00	
Henry O. Atwood,	20 00	
Thomas J. Moody,	12 50	
Thomas Woodworth,	16 00	
Rev. W. S. McKenzie,	30 00	
Edward L. Baldwin,	25 00	
J. Harrington,	30 00	
Charles E. Swett,	30 00	
	<hr/>	301 50
WATER LOAN INTEREST, transferred,		750 00
<i>Amount carried forward,</i>		<hr/> \$10,051 50

Amount brought forward,

\$10,051 50

Debit.

CASH, paid Joshua H. Davis, salary as superintendent of schools,	\$1,800 00	
Travelling expenses,	14 60	
Paid by him for glazing,	1 25	
Janitors,	3,508 38	
William H. Brine, truant officer,	300 00	
Jairus Mann, " "	49 92	
William H. Brine, travelling ex- penses,	8 53	
Wm. M. Stevens, travelling ex- penses,	13 22	
J. S. Hayes, travelling expenses,	11 59	
Geo. E. Nichols, "	5 50	
Harriet M. Pitman, "	1 50	
G. A. Southworth, "	4 00	
Ribbon for diplomas,	3 50	
Geo. L. Baxter, " "	3 13	
N. S. Dearborn, diplomas,	88 80	
Boston School Supply Co., chart,	5 60	
Mrs. E. D. Daniels, books,	70 66	
Geo. W. Bartlett, "	36 05	
John C. Howard, "	48 30	
E. J. Burt, "	186 88	
C. H. Dimond, "	77 40	
Willard Small, "	25 37	
E. L. Warren, "	11 70	
Knight, Adams & Co., school sup- plies,	1,147 95	
J. L. Hammett, school supplies,	35 93	
Ginn, Heath & Co., maps and globes,	15 50	
J. W. C. Gilman & Co., writing books,	26 12	
Prang Educational Society, papers,	2 98	
Charles C. Gerry, erasers,	31 00	
<i>Amounts carried forward,</i>	<hr/> \$7,535 36	<hr/> \$10,051 50

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<i>Amounts brought forward,</i>	\$7,535 36	\$10,051 50
A. D. Albee, ink,	21 85	
T. W. Gilson, directory,	6 00	
W. G. Baker & Co., curtains,	2 70	
Oscar T. Howe, brooms, etc.,	13 75	
W. L. Snow, brushes, brooms, etc.,	4 95	
Murphy, Leavens & Co., dusters, etc.,	172 46	
Williams & Butler, dustpans, etc.,	5 00	
Charles Holmes & Son, lamps, hardware, etc.,	57 78	
P. Lynam, mats,	20 16	
N. E. Mat & Brush Co., mats,	4 80	
F. E. Stewart, use of chairs,	3 00	
James Gwynn, carting chairs,	4 00	
L. Arnold, carpenter work,	5 45	
Richard A. Stevens, “	6 90	
F. W. Johnson, painting and glazing,	6 75	
L. F. Seaver, glass,	1 00	
Rand & Byam, soap,	10 50	
Thomas Hollis, “	5 25	
A. F. Carpenter, “	40	
C. L. Stevens, soap and oil,	4 00	
Chase & Spaulding, oil,	1 00	
C. A. Small, “	1 20	
D. H. Rinn, oil and soap,	8 30	
W. H. Denton, oil,	5 72	
Wm. R. Cann, use of carpet, etc.,	15 25	
Timothy G. Dean, labor,	3 00	
Geo. H. Brown, tuning pianos,	5 00	
John McKenna, “	1 50	
E. S. Daniels, “	7 00	
Jackson, Caldwell & Co., moving piano,	6 00	
T. D. Whitney & Co., piano cover,	5 00	
Thomas Young, flowers,	4 10	
J. O. Hayden & Co., printing,	233 70	
Geo. B. King, “	47 40	
<i>Amounts carried forward,</i>	<hr/> \$8,236 23	<hr/> \$10,051 50

<i>Amounts brought forward,</i>	\$8,236 23	\$10,051 50
Aaron R. Gay & Co., stationery,	2 40	
H. M. Weld, hack hire,	7 00	
Thorpe's Express, expressing,	8 15	
W. J. London, "	4 25	
Larker & Tibbetts, "	7 40	
E. R. Perham, "	1 05	
Stilphen & Co., "	11 80	
Woodbridge & Co., "	13 55	
B. H. Weeks & Co., "	10 00	
J. M. Coburn, rent, etc.,	172 80	
Cambridge Gas Light Co., gas,	47 59	
Charlestown Gas Co., "	82 01	
City of Cambridge, water rates,	24 00	
" Boston, "	1,381 90	
	<hr/>	
	\$10,010 13	
EXCESS AND DEFICIENCY, balance to credit of account,	41 37	
	<hr/>	
		<u>10,051 50</u>

SCHOOL FUEL.

Credit.

APPROPRIATIONS, amount assessed, \$5,000 00

Debit.

CASH, paid W. M. Hadley, fuel,	\$4,854 49	
Aaron R. Gay & Co., order book,	8 50	
Journal Newspaper Co., advertis-		
ing,	11 50	
J. O. Hayden & Co., advertising,	7 20	
Street Lights account, "	7 88	
	<hr/>	
	\$4,889 57	
EXCESS AND DEFICIENCY, balance to credit of account,	110 43	
	<hr/>	
		<u>\$5,000 00</u>

SCHOOL-HOUSE INCIDENTALS.

Credit.

APPROPRIATIONS, amount assessed,		\$7,000 00
CASH, received of Charles E. Wood-		
man, use of high-school hall,	\$10 00	
F. E. Dickerman, use of high		
school hall,	5 00	
Thomas Miller and others, use of		
high-school hall,	62 50	
High School Association, use of		
high-school hall,	40 00	
Forster School Association, use		
of Forster School Hall,	18 00	
J. F. Wilde, settees,	24 50	
Benj. Elston, second-hand stove,	12 00	
Florence Street Union Stable Co.,		
half cost of division fence,	16 00	
Cambridge Railroad Co., half cost		
of division fence,	57 50	
		245 50
INTEREST, transferred,		3,228 86
		<hr/>
		\$10,474 36

Debit.

CASH, paid C. A. Dodge, carpenter		
work, .	\$280 56	
R. A. Melvin, carpenter work,	47 03	
John D. Hills, “	392 15	
Richard A. Stevens, “	176 88	
Fred. E. Fuller, “	244 43	
M. R. Sweatt, “	257 55	
J. T. Burnham, “	227 71	
T. B. Blaikie, “	96 90	
L. Arnold, “	7 92	
F. Hathaway, “	115 25	
Geo. W. Trefren, “	2 43	
Elijah Walker, “	21 46	
		<hr/>
<i>Amounts carried forward,</i>	\$1,870 27	\$10,474 36

<i>Amounts brought forward,</i>	\$1,870 27	\$10,474 36
Daniel Brooks, mason work	141 84	
D. P. Buckman, “	560 45	
Maurice Buttimer, “	3 88	
C. F. Palmer, “	5 00	
D. A. Sanborn, “	56 30	
A. C. Winning, “	110 28	
C. G. Reed, plastering,	105 00	
George W. Remick, plastering,	27 00	
C. A. Legallee, plumbing,	218 47	
F. A. Titus & Co., “	27 17	
J. F. Davlin, “	2 36	
J. A. Merrifield, stove work, etc.,	42 84	
J. E. Parsons, “	44 63	
T. E. Spencer, “	8 00	
H. W. Covell & Co., “	9 15	
Bosworth & French, repairing water pipe,	9 42	
J. Q. Twombly, painting and glaz- ing,	184 40	
A. Fisher, painting and glazing,	212 25	
J. H. Hollis, “	70 75	
W. S. Walker, “	27 00	
Ramsay Clark, “	19 65	
Edward Earley, slating,	56 80	
L. C. Seavey, “	7 39	
Cotter Bros., “	34 88	
Flynn Bros., paper hanging, etc.,	10 16	
O. Nowell, bell hanging,	3 00	
A. A. Sanborn, boiler and steam fitting,	1,621 81	
G. T. Burnham, carpenter work, etc., Forster school-house,	1,616 00	
C. Carpenter & Co., galvanized iron pipes, etc.,	74 66	
Highland Foundry Co., heating and ventilating apparatus,	176 31	
Somerville Iron Foundry Co., castings,	60 45	
<i>Amounts carried forward,</i>	<u>\$7,417 57</u>	<u>\$10,474 36</u>

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<i>Amounts brought forward,</i>	\$7,417 57	\$10,474 36
G. M. D. Fernald, repairing gongs,	3 00	
Charles Pierce, repairing gongs,	1 50	
A. J. Wilkinson & Co., door spring,	8 20	
George E. Bruorton, agt., fire ex- tinguisher,	50 00	
A. G. Whitcomb, school furni- ture,	893 95	
J. L. Hammett, blackboards, etc.,	62 70	
J. A. Swazey, “	85 01	
Henry McElwin, “	138 68	
Charles Holmes & Son, hardware, etc.,	67 96	
Howe & Flint, hardware, etc.,	136 86	
W. L. Snow, “	464 35	
Burdett & Williams, hardware, etc.,	7 10	
H. W. Raymond, hardware, etc.,	20 25	
Wm. Hall & Co., “	3 85	
Enoch Robinson, locks, etc.,	13 00	
S. J. Wood, fitting keys,	2 75	
B. M. Boyce, clock,	6 00	
E. S. Bailey, repairing clock,	4 50	
S. B. Manning, clock, and re- pairing, etc.,	22 00	
Fred. R. Cutter, clock, and re- pairing, etc.,	18 00	
J. S. Merrill & Son, window shades,	11 40	
H. A. Hartley & Co., carpet,	36 28	
J. J. Giles, office chair,	2 00	
G. F. Ricker & Co., cleaning car- pet,	2 24	
Bishop Bros., step ladders,	4 35	
Henry Moulton & Co., step lad- ders,	10 80	
<i>Amounts carried forward,</i>	\$9,494 30	\$10,474 36

<i>Amounts brought forward,</i>	\$9,494 30	\$10,474 36
Sturtevant Bros., salt,	2 00	
J. Breck & Son, repairing mower,	1 75	
Geo. Dunbar & Co., ash barrels,	16 31	
Hovey & Co., trees,	36 00	
T. Murphy, “	33 00	
Henry Murray, cutting and gilding sign, “High School,”	25 00	
S. D. Kelley, architect services,	80 00	
W. C. Crane, premium of insurance,	95 00	
Isaac B. Kendall, premium of insurance,	5 20	
Barker & Tibbetts, expressing,	5 80	
E. R. Perham, “	1 00	
H. M. Weld & Co., hack hire,	5 00	
J. E. Whitaker, loam and gravel,	78 00	
Joseph Young, care of lawn,	20 00	
J. M. Coburn, labor,	5 05	
W. H. Denton, “	28 50	
Peter Flynn, “	5 25	
Paul Kelley, “	5 00	
Maurice Terry, “	3 50	
Highways Account, labor, teaming, etc.,	97 54	
Water Service Account, service pipe, etc.,	31 75	
Sewers Account, repairing vault and drain,	42 48	
Charles Robinson, rent,	250 00	
Cambridge Gas Light Co., gas,	106 93	
		<u>\$10,474 36</u>

SCHOOL TEACHERS SALARIES.

Credit.

APPROPRIATIONS, amount assessed,	\$68,000 00
INTEREST, transferred,	1,287 89
<i>Amount carried forward,</i>	<u>\$69,287 89</u>

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Amount brought forward, \$69,287 89

Debit.

CASH, paid salaries, 69,287 89

TAXES.

Credit.

CASH, received for taxes for 1880,	\$187 22	
1881,	30,139 45	
1882,	85,236 19	
1883,	295,202 22	
		\$410,765 08

REAL ESTATE LIENS, titles to the city for non-payment of taxes of 1881,		549 90
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OVERLAY AND ABATEMENT, abatement on taxes for 1878,	\$58 90	
1880,	2,398 71	
1881,	210 75	
1882,	457 58	
1883,	3,409 30	
		6,535 24
		\$417,850 22

BALANCE, to debit in account 1884, be- ing uncollected taxes for 1881,	\$3,254 80	
1882,	34,296 84	
1883,	113,033 91	
		150,585 55
		\$568,435 77

Debit.

BALANCE, from 1882,	\$156,790 34	
APPROPRIATIONS, amount assessed for current expenses,	368,535 00	
STATE OF MASSACHUSETTS, amount as- sessed for State tax,	19,725 00	
<i>Amounts carried forward,</i>	\$545,050 34	\$568,435 77

<i>Amounts brought forward,</i>	\$545,050 34	\$568,435 77
COUNTY OF MIDDLESEX, amount assessed for county tax,	14,547 74	
OVERLAY AND ABATEMENT, amount added by the assessors,	8,837 69	
	<hr/>	<hr/> 568,435 77 <hr/>

TEMPORARY LOANS.

Credit.

BALANCE, from 1882,		\$160,000 00
CASH, borrowed by authority of the City Council, on city notes, as follows, viz.: —		
March 29. Warren Institution for Savings, on eight months, at 4 per cent.,	\$50,000 00	
April 26. Maverick National Bank, on six months, at 4 per cent.,	50,000 00	
June 12. Blake Brothers & Co., on five months, at $4\frac{1}{8}$ per cent.,	40,000 00	
June 12. Blake Brothers & Co., on five months, at $4\frac{1}{8}$ per cent.,	35,000 00	
July 13. Blake Brothers & Co., on four months, at $4\frac{1}{4}$ per cent.,	25,000 00	
Aug. 14. Warren Institution for Savings, on four months, at 4 per cent.,	25,000 00	
Sept. 29. Warren Institution for Savings, on six months, at 4 per cent.,	60,000 00	
Oct. 26. Boston Five Cents Savings Bank, on six months, at 4 per cent.,	25,000 00	
Dec. 29. Warren Institution for Savings, on eight months, at 4 per cent.,	50,000 00	\$360,000 00
<i>Amount carried forward,</i>	<hr/>	<hr/> \$520,000 00 <hr/>

APPENDIX TO TREASURER'S AND COLLECTOR'S REPORT. 111

Amount brought forward, \$520,000 00

Debit.

CASH, paid the following named : —

March 29. Warren Institution for Savings, note dated Sept. 29, 1882,	\$50,000 00
April 26. State of Massachusetts, note dated Dec. 26, 1882,	50,000 00
June 12. State of Massachusetts, note dated Dec. 12, 1882,	60,000 00
Oct. 26. Provident Institution for Savings, note dated April 26, 1883,	50,000 00
Nov. 12. Suffolk Savings Bank, note dated June 12, 1883,	40,000 00
Nov. 12. Suffolk Savings Bank, note dated June 12, 1883,	35,000 00
Nov. 13. New England Trust Company, note dated July 13, 1883,	25,000 00
Nov. 28. Warren Institution for Savings, note dated March 29, 1883,	50,000 00
Dec. 14. Warren Institution for Savings, note dated Aug. 14, 1883,	25,000 00

\$385,000 00

BALANCE, to credit in account of 1884, 135,000 00

\$520,000 00

WATER SERVICES.

Credit.

CASH, received of Richard Keefe, labor-

er's pay not called for,	\$1 50
B. Binney, pipe and labor,	12 60
A. A. Perry, agent, pipe and labor,	10 29
Estate of Samuel Langmaid, labor,	8 50

Amount carried forward, \$32 89

<i>Amount brought forward,</i>	\$32 89
Frank P. Ladd, labor,	4 50
Charles River Railroad, labor,	5 00
D. L. Demmon, “	11 62
J. A. Roberts, “	6 72
Charles Randall, “	6 75
Martha D. Frost, “	18 63
Estate of A. H. Bailey, labor and materials,	4 50
R. C. Elliott, labor and materials,	2 00
William Veazie, “ “	5 19
Lewis Grant, fittings,	2 42
Philip Eberle, labor, fittings, etc.,	9 62
C. H. Tompkins, “ “	8 24
Mark Loughton, extension of service pipe,	7 48
D. Wessells, labor and materials,	10 68
Geo. B. Haskell, pipe and fittings,	1 39
Isaac Kendall, “ “	10 00
Austin Belknap, labor and materials,	10 30
W. A. Muzzey, stop and waste cock,	1 50
A. F. Sargent, cement lined pipe,	14 20
Doct P. Kenniston, service boxes, etc.,	9 50
Maurice Buttmer, galvanized iron pipe,	3 60
Chadwick Lead Co., old lead,	6 50
Walworth Manufacturing Co., old composition,	57 00
George W. Derby, fittings,	3 50
Michael Dewire, “	1 75
Town of Attleboro, clamps,	2 00
Watering Streets Account, repairing stand pipes,	55 65
School-House Incidentals Account, pipe fittings and labor,	31 75
<i>Amount carried forward,</i>	<hr/> \$344 88

APPENDIX TO TREASURER'S AND COLLECTOR'S REPORT. 113

<i>Amount brought forward,</i>	\$344 88	
Highways Account, pipe,	49 17	
		<hr/> \$394 05

WATER SERVICE ASSESSMENTS, cost of		
service pipes laid,		4,230 76
		<hr/> \$4,624 81

Debit.

CASH, paid laborers,	\$1,318 62	
Walworth Mfg. Co., fittings,	204 62	
Sumner & Goodwin, “	1,023 26	
Ward & Curley, “	488 66	
Chadwick Lead Works, pipe, etc.,	204 63	
J. W. Allen, pipe and fittings,	13 79	
Braman, Dow & Co. pipe, etc.,	15 04	
Davis & Farnham, Mfg. Co.,		
castings,	400 67	
W. O. Barbour & Co., castings,	27 21	
Hardwick & Ware, “	8 80	
Dalton & Ingersoll, stop and waste		
cocks,	12 98	
John H. Stevens & Co., hydrant		
handles,	2 25	
Somerville Iron Foundry, clamps,	82 14	
Boston Belting Co., hose,	6 30	
George Dunbar & Co., files,	2 55	
Chapman Valve Mfg. Co., repairs,	1 00	
Union Water Meter Co., cones,	16 25	
Stultz & Mansur, packing tool,		
etc.,	5 75	
J. Cogan, horse collar,	6 00	
J. G. Knapp & Co., oil-cloth coats,	7 00	
Morrill & Allen, machine work,	20 50	
Charles Holmes & Son, plumbing,	14 03	
W. L. Snow, “	11 00	
Howe & Flint, “	50	
G. M. J. Wilson, harness work,	7 90	
W. A. Ham, horse,	225 00	
		<hr/>
<i>Amounts carried forward,</i>	\$4,126 45	\$4,624 81

<i>Amounts brought forward,</i>	\$4,126 45	\$4,624 81
L. H. Brown, horse hire,	12 00	
John T. Hanley, charcoal,	4 75	
M. Stanley, “	2 25	
	<hr/>	
	4,145 45	
WATER MAINTENANCE, balance trans- ferred,	479 36	
	<hr/>	
		<u>4,624 81</u>

WATER SERVICE ASSESSMENTS.

Credit.

CASH, received of sundry persons, for water services,	\$4,096 78
BALANCE, to debit in account 1884,	857 80
	<hr/>
	\$4,954 58

Debit.

BALANCE from 1882,	\$723 82
WATER SERVICES, service pipes laid in 1883,	4,230 76
	<hr/>
	<u>4,954 58</u>

WATER MAINTENANCE.

Credit.

APPROPRIATIONS, amount assessed,	\$12,000 00
CASH received of A. L. Dodge, con- demned pipe,	\$2 20
Albert Fitch, condemned pipe,	96
City of Chelsea, cement pipe,	89 90
City of Boston, “	37 20
Town of Arlington, clamps,	27 00
Wm. B. Holmes, pipe and fittings,	13 52
G. M. Spaulding, labor on gate- box,	4 50
George C. Skilton, old rubber hose,	8 03
	<hr/>
<i>Amounts carried forward,</i>	\$183 31
	<u>\$12,000 00</u>

APPENDIX TO TREASURER'S AND COLLECTOR'S REPORT. 115

<i>Amounts brought forward,</i>	\$183 31	\$12,000 00
S. B. Locke & Co., old iron,	53 55	
John P. Squire & Co., clamp,	1 00	
George W. Lake, pipe in New Church Street,	30 00	
L. W. Dow, part cost of pipe in Fairmount avenue,	75 00	
James W. Stearns, part cost of pipe in Hudson Street,	50 00	
R. C. Downer, pipe fittings and labor,	8 00	
John J. Dorey, use of hydrant, etc.,	5 12	
Richard Falvey, use of hydrant, etc.,	62	
Chas. A. Mongan, use of hydrant, etc.,	6 00	
W. K. Fletcher, labor on trench,	16 25	
George W. Prichard, repairing damage to pipe,	3 00	
J. H. & T. Cunningham, lining pipe,	56 89	
Eugene Gormley, horse,	100 00	
J. Larden, laborer's pay not called for,	6 75	
Thomas Colman, laborer's pay not called for,	3 00	
John Peabody, manure,	10 00	
Highways account, labor and materials,	3 15	
Sewers account, use of team and labor,	11 50	
Watering streets account, repairing hydrants and stand pipes,	40 75	
		672 89
INTEREST, transferred,		3,000 00
WATER SERVICES, transferred,		479 36
<i>Amount carried forward,</i>		\$16,152 25

Amount brought forward,

\$16,152 25

Debit.

CASH, paid laborers,	\$9,421 25	
Nathaniel Dennett, salary as superintendent,	1,500 00	
James T. Cummings, salary as clerk of board,	50 00	
Nathan Tufts & Son, grain,	79 55	
Fulton Obrion, “	29 44	
Hewey, Skillings & Co., “	36 91	
Hosmer, Crampton & Hammond, hay and straw,	181 19	
Fuller, Dana & Fitz, forming machine,	48 11	
George L. Fairbanks, rolling machine,	275 00	
Dover Stamping Co., mandrel,	5 23	
George Dunbar & Co., forge and sledges,	61 56	
Ames Plough Co., furnace, etc.,	42 48	
James S. Newhall & Co., valves, etc.,	66 75	
Chapman Valve Mfg. Co., valves, etc.	19 80	
H. B. Newhall & Co., bolts,	7 31	
Morrill & Allen, steel bars,	10 50	
Dodge, Haley & Co., rivets,	24 24	
S. B. Locke & Co., castings,	364 29	
Davis & Farnham Mfg. Co., castings,	525 11	
Osgood & Hart, castings,	4 32	
W. O. Barbour & Co., “	52 91	
Suffolk Iron Foundry Co., castings,	1 55	
Fulton Iron Foundry Co., “	3 00	
Horatio Wellington & Co., cement,	877 00	
L. G. Burnham & Co., cement,	78 60	
<i>Amounts carried forward,</i>	<u>\$13,766 10</u>	<u>\$16,152 25</u>

APPENDIX TO TREASURER'S AND COLLECTOR'S REPORT. 117

<i>Amounts brought forward,</i>	\$13,766 10	\$16,152 25
F. B. Austin & Co., iron,	72 31	
Boston Machine Co., gates and hydrants,	219 30	
Walworth Mfg. Co., iron pails, etc.,	5 50	
Dodge, Gilbert & Co., hardware,	2 66	
Charles Holmes & Son, “	29 63	
Howe & Flint, “	5 63	
City of Malden, cement lined pipe,	31 50	
Chadwick Lead Works, lead pipe, etc.,	5 00	
William A. Muzzey, drain pipe,	1 35	
David A. Sanborn, drain pipe and labor,	8 10	
Craig & Tucker, safe,	55 00	
E. D. Sawyer & Co., lumber,	14 90	
S. W. Fuller, “	8 72	
S. M. Fuller, wood,	10 20	
Edward Fitzgerald, stone,	4 00	
George W. Prichard, sand, carting, etc.,	54 45	
Sewall & Day Cordage Co., rope, etc.,	39 63	
Boston Belting Co., washers,	40 78	
Hall Rubber Co., rubber mittens,	10 80	
C. L. Stevens, paper pails,	2 00	
J. G. Knapp & Co., wagon boot,	2 00	
F. Ivers, repairing wagons,	36 50	
Hill & Langtry, blankets, etc.,	36 24	
G. M. J. Wilson, repairing har- nesses,	8 65	
E. Spalding, repairing harnesses,	22 00	
J. Leland, wheelwright work,	15 67	
Cook, Rymes & Co., blacksmith and machine work,	218 22	
Seward Dodge, horseshoeing and blacksmithing,	175 42	
<i>Amounts carried forward,</i>	\$14,902 26	\$16,152 25

<i>Amounts brought forward,</i>	\$14,902 26	\$16,152 25
Charles Maguire, horseshoeing,	22 80	
Elijah Walker, carpenter work,	34 87	
George W. Remick, plastering,	25 00	
A. H. Dennett, paper hanging,	11 03	
E. S. Bailey, repairing clock,	1 00	
E. I. Train & Co., powder and fuse,	6 04	
Jeremiah Kelleher, " "	1 00	
Union Glass Co., lanterns,	29 35	
P. C. Bacon, twine,	1 50	
Amos Haynes, tierce,	1 50	
Bagnall & Loud, blocks,	95	
A. J. Wilkinson & Co., locks,	5 65	
James Bartley, soap and oil,	7 53	
J. C. Storey & Co., oil and tar,	28 30	
Sturtevant Bros., naphtha, etc.,	3 65	
Thomas Keating, oat meal and ginger,	7 20	
E. S. Conant & Co., salt, etc.,	29 03	
Warren B. Plympton, polish,	1 10	
J. H. Brooks, duck,	3 30	
H. W. Raymond, hardware,	65 73	
Thomas Hollis, drugs,	2 45	
C. H. Crane, sponges,	1 00	
W. M. Hadley, fuel,	57 14	
John F. Brine, " "	5 08	
Suburban Telephone Co., rental, etc.,	20 60	
Cambridge Gas Light Co.,	31 36	
J. O. Hayden & Co., printing,	24 05	
Paid by him for damages,	128 00	
Hooper, Lewis & Co., stationery,	33 75	
E. J. Burt, " "	35	
W. A. Greenough & Co., directory,	2 00	
W. C. Crane, premium of insurance,	59 25	
R. H. Sturtevant, sods,	1 20	
<i>Amounts carried forward,</i>	<u>\$15,555 02</u>	<u>\$16,152 25</u>

APPENDIX TO TREASURER'S AND COLLECTOR'S REPORT. 119

<i>Amounts brought forward,</i>	\$15,555 02	\$16,152 25
W. J. London, expressing,	2 00	
Lewis Putnam, veterinary services,	2 00	
T. F. Crimmings, use of horse,	5 00	
Highways Account, crushed stone,	2 50	
City of Boston, bends and offsets,	37 84	
“ water rates,	25 00	
E. Cunningham, damages,	25 00	
Marcella McGrath, “	25 00	
John Gee, “	25 00	
Migaloire Dion, “	20 00	
John Duffy, “	8 00	
Edward Elkins, “	7 00	
	<hr/>	
	\$15,739 36	
EXCESS AND DEFICIENCY, balance to credit of account,	412 89	
	<hr/>	
		<u>\$16,152 25</u>

WATERING STREETS.

Credit.

APPROPRIATIONS, amount assessed,		\$3,000 00
CASH, received of sundry persons as their proportional part of the cost of watering,	2,953 16	
HIGHWAYS account, labor,	7 00	
	<hr/>	
		2,960 16
		<hr/>
		\$5,960 16

Debit.

CASH, paid Christopher Burke, watering,	\$424 40	
T. F. Crimmings, watering,	450 60	
J. Downey, “	315 80	
J. F. Elkins, “	424 80	
	<hr/>	
<i>Amounts carried forward,</i>	\$1,615 60	\$5,960 16

<i>Amounts brought forward,</i>	\$1,615 60	\$5,960 16
Martin Gill, watering,	410 00	
Henry Gray, “	416 40	
Jeremiah McCarty, watering,	329 80	
John McCauley, “	374 00	
George W. Prichard, “	391 40	
Boston Belting Co., hose,	45 00	
A. M. & C. M. Wood, poles,	9 00	
S. D. Hicks & Son, copper work,	22 64	
J. Leland, wheelwright work,	27 65	
Charles Holmes & Son, repair- ing,	2 00	
F. Dooris, blacksmithing,	19 13	
Seward Dodge, “	42 83	
George H. Dodd, blacksmithing,	15 58	
Water maintenance account, hose, etc.,	40 75	
Water service account, repairing standpipes,	55 65	
Highways account, repairing and painting carts, watering and labor,	151 21	
Thorpe's Express, expressing,	85	
J. O. Hayden & Co., advertising,	10 80	
N. F. Caswell, services for collect- ing,	25 00	
City of Boston, water,	1,701 76	
	<hr/>	
	\$5,707 05	
EXCESS AND DEFICIENCY, balance to credit of account,	253 11	
	<hr/>	
		\$5,960 16

WATER LOAN INTEREST.

Credit.

CASH, received of city of Boston, re-
turn on water rates : —

1882.	40 per cent on \$5,251 60,	\$2,100 64	
1883.	15 per cent on \$20,000 00,	3,000 00	
	20 per cent on \$10,000 00,	2,000 00	
	25 per cent on \$10,000 00,	2,500 00	
	30 per cent on \$10,000 00,	3,000 00	
	40 per cent on \$17,652 58,	7,061 03	
		<hr/>	\$19,661 67

Debit.

CASH paid on interest on Water Loan
Bonds : —

\$1,000, 9 months at 5 per cent,	\$37 50	
\$229,000, 1 year at 5 per cent,	11,450 00	
\$70,000, 1 year at 5½ per cent,	3,850 00	
\$20,000, 1 year at 6 per cent,	1,200 00	
\$15,000, 1 year at 6½ per cent,	975 00	
	<hr/>	\$17,512 50
HEALTH DEPARTMENT, transferred,	800 00	
SCHOOL CONTINGENT, transferred,	750 00	
SUPPORT OF POOR, transferred,	350 00	
	<hr/>	\$19,412 50
EXCESS AND DEFICIENCY, balance to credit of account,	249 17	
	<hr/>	<u>19,661 67</u>

Table D.

BALANCES DECEMBER 31, 1883.

Cash,	\$14,465 87	
Excess and Deficiency,		\$45,772 18
Funded Debt,		1,585,000 00
Highway betterment assessments,	951 21	
Overlay and abatement,		2,302 45
Overplus on tax sales,		102 13
Property and debt balance,	412,400 00	
Public property,	1,172,600 00	
Real Estate Liens,	3,729 86	
Public Library,		88 45
Sewer Assessments,	5,946 64	
Sidewalk Assessments,	3,140 38	
State of Massachusetts — State Aid,	3,654 50	
State of Massachusetts — Indi- gent Soldiers and Sailors,	418 50	
Sundry persons,		485 10
Taxes,	150,585 55	
Temporary Loans,		135,000 00
Water Service Assessments,	857 80	
	<hr/>	
	\$1,768,750 31	\$1,768,750 31
	<hr/>	

REPORT
OF THE
COMMISSIONERS OF THE SINKING FUNDS.

CITY OF SOMERVILLE.

IN BOARD OF MAYOR AND ALDERMEN,
Feb. 13, 1884.

Referred to the Committee on printing, to be printed with the Annual reports for 1883. Sent down for concurrence.

CHARLES E. GILMAN, *Clerk.*

IN COMMON COUNCIL, Feb. 14. 1884.

Concurred in.

DOUGLAS FRAZAR, *Clerk.*

CITY OF SOMERVILLE.

IN BOARD OF COMMISSIONERS OF THE SINKING FUNDS,

Feb. 4, 1884.

To the Honorable the Mayor and the City Council of the City of Somerville :

GENTLEMEN:—The undersigned present herewith the eighth annual report of the condition of the Sinking Funds of this city.

The amount of the funds Jan. 1, 1883, as per the seventh annual report, was,	\$373,654 18
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The increase during the year 1883,
was:—

Contribution by the city for the year,	45,525 00
--	-----------

Interest on investments in city bonds, \$325,000 one year and \$1,000 nine months at 5 per cent., and \$44,500, one year at 5½ per cent,

\$18,735 00

Interest on deposits in banks,

219 01

18,954 01

Total sinking funds Jan. 1, 1884,

\$438,133 19

Invested as follows :

In bonds of the city of Somerville,
\$390,000 at 5 per cent. and
\$44,500 at 5½ per cent.

\$434,500 00

Deposited in banks and drawing interest,

3,633 19

\$438,133 19

The several sinking funds are :—

City loan, maturity of 1885,	\$46,441 96	
“ “ “ 1895,	335,449 23	
Sewer loan, “ 1896,	9,017 00	
Water loan, “ 1905,	44,986 00	
“ “ “ 1906,	1,221 00	
“ “ “ 1907,	1,018 00	
	<hr/>	\$438,133 19
		<hr/>

Respectfully submitted,

NATHAN TUFTS,
HENRY F. WOODS, } *Commissioners.*
EZRA D. CONANT, }

REPORT
OF THE
SCHOOL COMMITTEE.

CITY OF SOMERVILLE.

IN SCHOOL COMMITTEE, Dec. 21, 1883.

The Superintendent submitted his annual report, which was read and accepted. It was voted that the committee adopt the report now submitted by the Superintendent of the Public Schools, and present it to their fellow-citizens as the report of the School Committee for the year 1883.

J. H. DAVIS, *Secretary*.

IN BOARD OF ALDERMEN, Feb. 13, 1884.

Referred to the Committee on Printing, to be printed with the Annual Reports for 1883. Sent down for concurrence.

CHARLES E. GILMAN, *Clerk*.

IN COMMON COUNCIL, Feb. 14, 1884.

Concurred in.

DOUGLAS FRAZAR, *Clerk*.

BOARD OF SCHOOL COMMITTEE, 1883.

HON. JOHN A. CUMMINGS,

Mayor, Chairman, *ex-officio*.

FRANK E. FITTS,

President of Common Council, *ex-officio*.

WARD ONE.

HORACE C. WHITE, M. D.	Term expires 1883
JOHN H. BUTLER	" 1884
HENRY M. MOORE	" 1885

WARD TWO.

REV. A. E. WINSHIP	Term expires 1883
OREN S. KNAPP	" 1884
REV. GEO. W. DURELL	" 1885

WARD THREE.

Q. E. DICKERMAN	Term expires 1883
HENRY F. WOODS	" 1884
NORMAN W. BINGHAM	" 1885

WARD FOUR.

REV. C. M. SMITH, D. D.	Term expires 1883
MISS HARRIET M. PITMAN	" 1884
PROF. BENJ. G. BROWN	" 1885

J. H. DAVIS,

Superintendent and Secretary.

At the meeting of the School Committee held August 27th, the resignation of Miss Harriet M. Pitman was received and accepted. The vacancy thus occasioned, was filled in convention of the City Council and School Committee, September 26th, by the election of Martin W. Carr.

STANDING COMMITTEES, 1883.

On the High School,

MESSRS. WHITE, SMITH, WINSHIP, BROWN, DURELL, BINGHAM, BUTLER,
DICKERMAN.

On Schools in East Somerville District,

MESSRS. WHITE, MOORE, BUTLER.

On Schools in Prospect Hill District,

MESSRS. KNAPP, DURELL, WINSHIP, FITTS.

On Schools in Winter Hill District,

MESSRS. WOODS, BINGHAM, DICKERMAN.

On Schools in Spring Hill District,

MISS PITMAN, MESSRS. BROWN, SMITH.

On Schools in West Somerville,

MESSRS. SMITH, BROWN, MISS PITMAN.

On Evening Schools,

MESSRS. WINSHIP, DICKERMAN, WHITE.

On Examination of Teachers,

MESSRS. BROWN, BUTLER, SMITH, KNAPP, MISS PITMAN.

On Text-Books.

MESSRS. BINGHAM, KNAPP, WHITE, MISS PITMAN.

On Repairs and Heating Apparatus,

MESSRS. MOORE, BROWN, FITTS, BINGHAM.

On School Supplies,

MESSRS. WOODS, BUTLER.

On Fuel,

MESSRS. BUTLER, FITTS, DURELL.

On Music,

MESSRS. DURELL, BINGHAM, FITTS, MISS PITMAN.

On Finance,

MESSRS. KNAPP, MOORE.

On Drawing and Penmanship,

MESSRS. DICKERMAN, WOODS, WINSHIP, BUTLER.

On Salaries,

MESSRS. KNAPP, BUTLER, SMITH, WOODS, MOORE, WINSHIP.

On Examination of First Class,

MESSRS. BUTLER, WOODS.

On Examination of Second Class,

REV. A. E. WINSHIP, MISS PITMAN.

On Examination of Third Class,

MESSRS. BROWN, MOORE.

On Examination of Fourth Class,

MESSRS. BINGHAM, WHITE, DURELL.

On Examination of Fifth Class,

MESSRS. DICKERMAN, FITTS, MISS PITMAN.

On Examination of Sixth Class,

MESSRS. SMITH, KNAPP.

BOARD OF SCHOOL COMMITTEE, 1884.

HON. JOHN A. CUMMINGS,
Mayor, Chairman, *ex officio*.

JOSIAH B. MAYHEW,
President of Common Council, *ex officio*.

WARD ONE.

JOHN H. BUTLER	Term expires 1884
HENRY M. MOORE	" 1885
HORACE C. WHITE, M.D.	" 1886

WARD TWO.

OREN S. KNAPP	Term expires 1884
REV. GEO. W. DURELL	" 1885
MRS. CORNELIA B. SKINNER	" 1886

WARD THREE.

HENRY F. WOODS	Term expires 1884
NORMAN W. BINGHAM	" 1885
QUINCY E. DICKERMAN	" 1886

WARD FOUR.

MARTIN W. CARR	Term expires 1884
PROF. BENJ. G. BROWN	" 1885
HORACE P. MAKECHNIE, M.D.	" 1886

J. H. DAVIS,
Superintendent and Secretary.

STANDING COMMITTEES, 1884.

High School,

MESSRS. WHITE, BROWN, DURELL, BINGHAM, BUTLER, DICKERMAN.

East Somerville Schools,

MESSRS. WHITE, MOORE, BUTLER.

Prospect Hill Schools,

MESSRS. KNAPP, DURELL, MRS. SKINNER.

Winter Hill Schools,

MESSRS. BINGHAM, WOODS, DICKERMAN, MAYHEW.

Spring Hill Schools,

MESSRS. CARR, BROWN, MAKECHNIE.

West Somerville Schools,

MESSRS. BROWN, MAKECHNIE, CARR.

Evening Schools,

MESSRS. DICKERMAN, MOORE, MRS. SKINNER.

Examination of Teachers,

MESSRS. BROWN, BUTLER, MAKECHNIE.

Text-Books,

MESSRS. DURELL, BINGHAM, KNAPP, WHITE, CARR.

Repairs and Heating Apparatus,

MESSRS. MOORE, KNAPP, MAYHEW, CARR.

School Supplies,

MESSRS. WOODS, CARR.

Fuel,

MESSRS. MAYHEW, DURELL, MAKECHNIE.

Music,

MESSRS. DURELL, BINGHAM, MRS. SKINNER.

Finance,

MESSRS. KNAPP, MOORE.

Drawing and Penmanship,

MESSRS. DICKERMAN, WOODS, BUTLER.

Salaries,

MESSRS. KNAPP, BUTLER, WOODS, MOORE, CARR.

Approval of Private Schools,

MESSRS. BUTLER, KNAPP, BINGHAM, MAKECHNIE.

Examination of First Class,

MESSRS. BROWN, MOORE.

Examination of Second Class,

MESSRS. WHITE, DURELL.

Examination of Third Class,

MESSRS. BINGHAM, CARR.

Examination of Fourth Class,

MESSRS. DICKERMAN, MAYHEW.

Examination of Fifth Class,

MESSRS. MAKECHNIE, KNAPP.

Examination of Sixth Class,

MESSRS. BUTLER, WOODS, MRS. SKINNER.

SUPERINTENDENT'S REPORT.

To the School Committee of Somerville:—

GENTLEMEN :—In compliance with your instructions, the following, as the forty-first annual report of the school department, on the condition of the public schools, is respectfully submitted.

SUMMARY OF STATISTICS.

Population of the city, United States census, 1880	24,985
Population of the city, in May, 1882	25,725
Number of persons in the city, between five and fifteen years of age, on the first day of May last	5,478
In Ward One	1,563
“ Two	1,867
“ Three	1,010
“ Four	1,038
Increase for the year	376
Number between eight and fourteen years . .	3,400
Valuation of the city, May 1, 1883	\$23,812,900
Real estate 22,042,100	
Personal estate \$1,770,800	
Rate of taxation . . . . .	.0167
Estimated value of school property	\$362,032
Number of cities in the State	21
Number of towns “ “	325
Number of public schools in the State in 1882	6,090
Number of Normal schools	6

EXPENDITURES FROM JAN. 1, 1883, TO JAN. 1, 1884.

BY THE CITY COUNCIL.

Repairs, insurance, rent of school-room	\$10,474 36	
Fuel	4,889 57	
	<hr/>	\$15,363 93

BY THE SCHOOL COMMITTEE.

Salaries of teachers and superintendent.	\$71,087 89	
Janitors' salaries	3,508 38	
Truant officers' salaries	350 00	
Water	1,405 90	
Gas	129 57	
Books	455 41	
Printing	281 10	
Stationery and other supplies	1,241 00	
Miscellaneous	838 77	
	<hr/>	79,298 02
Total expenditures		<hr/> \$94,661 95

RECEIPTS.

Tuition of non-resident pupils	\$301 50	
Rent of school halls	245 50	
	<hr/>	547 00
Net expenditures		<hr/> \$94,114 95

SCHOOLS.

Four new schools have been formed within the year; one grammar school in the Morse school-house and one in the Lincoln school-house; one primary school in the Forster school-house and one in the Webster school-house.

Whole number of schools	93
High school	1
Grammar schools	50
Primary schools	42

SCHOOL-HOUSES.

Whole number of school buildings	19
Number of school-rooms owned by the city . .	96
Number of rooms hired for school purposes . .	1
Number of vacant school-rooms	3
In the Bennett school-house	1
" Webster "	1
" Lincoln "	1

FORSTER SCHOOL-HOUSE.—In the summer of 1881, two school-rooms were constructed in the hall of this building. During the present year, the remaining portion of the hall has been divided into two school-rooms. The building now contains twelve school-rooms, all of which are occupied by schools.

This building was dedicated April 13, 1867, and first occupied by schools, five in number, on the second day of May following. The steam-boiler which had been in use ever since the house was dedicated, was displaced by a new one during the summer vacation, and the entire heating apparatus was thoroughly renovated.

The first Forster school-house was completed and occupied by schools, three in number, early in the year 1855. It was burnt February 18, 1866.

HIGH SCHOOL-HOUSE.—For the convenience of the High School, the partitions in the third story of this building, have been removed and two school-rooms, each thirty by thirty-one feet, have been constructed, leaving a hall sixty-three by sixty-four feet. This change, which does not mar the beauty of the hall or materially diminish its capacity, will, probably, render the accommodations of the building equal to the wants of the school for several years to come.

PRESCOTT SCHOOL-HOUSE.—The steam-boiler in this building has been in use sixteen years. The safety of the schools that will occupy the building, will require the substitution of a new boiler for the old one, sometime during the coming year. This building was dedicated June 16, 1868, and first occupied by schools, eight in number, on the 20th day of the same month.

HIGHLAND SCHOOL-HOUSE.—By order of the Board of Health, this building was vacated, for sanitary considerations, on Tuesday, December 11, and will not be occupied again until after

the Christmas vacation. The schools which have occupied this building, have been subjected to several interruptions during the year, in consequence of defective means of heating and ventilation.

TABLE SHOWING THE NUMBER OF SCHOOL BUILDINGS IN EACH OF THE SEVERAL DISTRICTS, AND THE NUMBER OF SCHOOLS AND PUPILS IN EACH BUILDING IN DECEMBER.

DISTRICTS.	BUILDINGS.	No. of School Rooms.	No. of Grammar Schools.	No. of Primary Schools.	Total.	No. of Pupils in December
	High School .	2	. . .	. . .	1	275
Winter Hill . . .	Forster . . .	12	7	5	12	531
" . . .	Cedar Street .	2	. . .	2	2	89
East Somerville .	Prescott . .	12	7	5	12	589
" . . .	Edgerly . . .	8	4	4	8	406
" . . .	Tufts Street .	1	. . .	1	1	41
Prospect Hill . .	L. V. Bell . .	12	9	3	12	669
" . . .	Prospect Hill.	6	3	3	6	329
" . . .	Brastow . . .	2	1	1	2	108
" . . .	Bennett . . .	4	1	2	3	166
" . . .	Jackson . . .	4	1	3	4	240
" . . .	Webster . . .	4	1	2	3	129
" . . .	Union	1	. .	1	1	45
Spring Hill . . .	Morse	7	7	. . .	7	273
" . . .	Beech Street .	2	. . .	2	2	77
" . . .	Spring Hill .	1	. . .	1	1	46
" . . .	Franklin . .	4	2	2	4	177
" . . .	Harvard . . .	1	. . .	1	1	49
West Somerville .	Highland . .	8	5	3	8	422
" . . .	Lincoln . . .	4	2	1	3	106
Total		97	50	42	93	4,767

ADDITIONAL ACCOMMODATIONS.

EAST SOMERVILLE AND PROSPECT HILL DISTRICTS.—All the school-rooms in East Somerville district are occupied by schools. One room is hired for school use. In Prospect Hill district there are only two vacant school-rooms; one in the Bennett school-house, which will be required for the accommodation of children in its immediate neighborhood, early in the coming spring, and one in the Webster school-house. All of the occupied

rooms in the district are full; those in the L. V. Bell school-house are crowded. Large accessions will be made to the ninth class in this building, when pupils of that grade are admitted in April next.

In each of these two districts there are many dwelling-houses just completed, or in process of construction, which will be occupied in a few months.

Present emergencies, and the necessities of the immediate future, seem to demand that measures be adopted at an early day, to furnish additional and permanent school accommodations in these two districts.

WEST SOMERVILLE DISTRICT.—All the school-rooms in this district are occupied except one room in the Lincoln school-house. The principal's room in the Highland school-house contains fifty-nine pupils, thirty-nine of whom are members of the second class. The ninth class contains sixty-three pupils, all in one room. Large numbers will be added to this class in the coming spring.

Two additional school-rooms will be required in this district next year; one in April for the sixth class, and one in September for the second class.

CEDAR STREET SCHOOL-HOUSE.—This building is insufficient to accommodate the primary-school children who live in its immediate neighborhood. The crowded condition of the schools which occupy the building was relieved temporarily, in September, by sending a portion of the seventh class to the schools of that grade in the Forster and the Highland school-houses. Those buildings cannot afford further relief; hence, when the usual accessions are made to the ninth class, in April next, an additional school-room in the neighborhood of the Cedar street school-house will be a necessity.

TEACHERS.

Fourteen teachers have been elected within the year, and eleven have resigned.

ELECTED.

Mr. Frank F. Murdock, principal of the Morse School.

Miss Corinne Harrison, teacher in the Morse School.

Miss Laura J. Brooks, teacher in the Morse School.

Miss Mary E. Stiles, teacher in the Forster School.

Miss Addie S. Winnek, teacher in the Forster School.
Miss Annie S. Gage, teacher in the Forster School.
Miss Clara G. Fogg, teacher in the Prescott School.
Miss Florence A. Robinson, teacher in the Prescott School.
Miss Isadore E. Taylor, teacher in the Bennett School.
Mr. John Wilson, principal of the Jackson School.
Miss Harriet A. Holbrook, principal of the Franklin School.
Miss Annie R. Cox, teacher in the Highland School.
Miss Alice B. Chadwick, teacher in the Lincoln School.
Miss Kate O'Brien, teacher in the L. V. Bell School.

RESIGNED.

Mr. William M. Stevens, principal of the Morse School.
Miss Nellie M. Whitney, teacher in the Forster School.
Miss Abbie F. Bosworth, teacher in the Edgerly School.
Miss Lizzie F. Appleton, teacher in the L. V. Bell School.
Miss Hattie E. Boardman, teacher in the Prospect Hill School.
Miss Nora O'Leary, principal of the Jackson School.
Miss Ada L. Sanborn, principal of the Webster School.
Miss Sarah F. Gibbs, teacher in the Highland School.
Miss Annie L. Clapp, teacher in the Lincoln School.
Miss Zillah E. Freeman, teacher in the Beech Street School.
Miss Ada I. Howe, teacher in the L. V. Bell School.
Whole number of teachers, 106: (male teachers 9; female teachers 97).
Number of teachers in the High School, 8: (male teachers 2; female teachers, 6).
Number of teachers in the grammar schools, 55: (male teachers, 6; female teachers, 49).
Number of teachers in the primary schools, 42.
One teacher of vocal music.
Number graduated at Normal Schools, 20.
Number graduated at our high school, 41.
Average time of service in years, 5.4.

SCHOOLS AND TEACHERS.

SCHOOLS.	TEACHERS.	Salaries.	When Elected.
High	George L. Baxter	\$2,200	1867
"	Frank M. Hawes	1,800	1879
"	Sarah W. Fox	1,050	1868
"	Fannie W. Kaan	850	1882
"	Sarah F. Litchfield	800	1880
"	Eudora Morey	800	1882
"	Minnie C. Clark	800	1882
"	Laura E. Giddings	700	1882
Forster	John S. Hayes	1,800	1878
"	Mary E. Northup	625	1878
"	Mary E. Stiles	600	1883
"	Ellen H. Wilde	600	1882
"	Frances M. Guptill	600	1869
"	Mary E. Wild	575	1882
"	Alice A. Batchelor	575	1877
"	Alice T. Couch	575	1881
"	Martha H. Pennock	550	1873
"	Addie S. Winnek	550	1883
"	Leila V. Colby	550	1879
"	Lizzie G. Perry	550	1878
"	Annie S. Gage	500	1883
Prescott,	G. A. Southworth	1,900	1873
"	Anna M. Bates	700	1874
"	Adelaide Reed	650	1877
"	Clara G. Fogg	600	1883
"	Emma M. Cate	600	1882
"	Abbie A. Anderson	600	1878
"	Catharine T. Brown	575	1868
"	Clara Taylor	575	1871
"	Sarah E. Pratt	600	1877
"	Florence A. Robinson	550	1883
"	Elgina M. Plummer	550	1877
"	Lillian Nealley	550	1882
"	Florence M. Morton	425	1882
Edgerly	Frank P. Hudson	800	1877
"	Amelia I. Sears	600	1873
"	Hattie M. Pierce	575	1882
"	Harriette H. Winslow	425	1881
"	H. V. Hathaway	550	1875
"	Anna L. Prescott	550	1873
"	Clara M. Bagley	550	1873
"	Ada Cowles	550	1875
Tufts Street	Lucretia A. Burns	550	1882
Luther V. Bell	Robert Bickford	1,700	1879
"	Abbie C. Hunt	625	1873
"	Minnie H. Marden	600	1876
"	Ellen M. Gooding	600	1868
"	Fannie A. Wilder	600	1874
"	May E. Berry	600	1880
"	Lillian F. Howe	600	1876
"	Emma F. Schuh	600	1874
"	Anna M. Snow	575	1866

SCHOOLS AND TEACHERS.

SCHOOLS.	TEACHERS.	Salaries.	When Elected.
Luther V. Bell . . .	Lydia J. Page	\$575	1869
“ “ . . .	Kate O'Brien	300	1883
“ “ . . .	Augusta M. Houghton . . .	550	1877
“ “ . . .	Eliza L. Schuh	425	1882
Prospect Hill . . .	Helen Tincker	650	1872
“ “ . . .	Ellen Ledyard	575	1874
“ “ . . .	Mary B. Currier	550	1873
“ “ . . .	Nellie A. Hamblin	425	1882
“ “ . . .	Charlotte I. Houghton . . .	550	1875
Brastow	Sarah E. Pennock	575	1871
“	Lizzie D. Harding	550	1877
Bennett	Augusta A. Roberts	625	1861
“	Maria Miller	550	1870
“	Isadore L. Taylor	300	1883
Jackson	John Wilson	625	1883
“	Anna C. Damon	550	1879
“	Maud M. Hobson	500	1879
“	Annie E. McCarty	500	1880
Webster	Clara J. Whittemore	550	1883
“	Annie L. Savage	550	1873
Union	Isabella M. Prince	550	1876
Morse	Frank F. Murdock	1,600	1883
“	Mina J. Wendell	625	1882
“	Corinne Harrison	600	1883
“	Pauline S. Downes	600	1872
“	Anna E. Sawyer	600	1873
“	Ella F. Gould	600	1882
“	Mary A. Haley	575	1868
“	Laura J. Brooks	575	1883
Beech Street . . .	Mary E. Bosworth	575	1882
Spring Hill . . .	Alice E. Furber	500	1881
Franklin	Harriet A. Holbrook	650	1883
“	Hattie A. Hills	575	1874
“	Emeline C. Summerhayes . .	550	1876
Harvard	Annie E. Robinson	550	1876
Highland	George E. Nichols	1,600	1877
“	Lilla A. Hayward	675	1881
“	Jennie Colburn	600	1875
“	Lizzie J. Conwell	600	1873
“	S. Adelaide Blood	575	1882
“	Annie R. Cox	575	1883
“	Alice P. Lord	550	1881
“	Sarah E. Pray	550	1878
“	Carrie M. Smith	425	1882
Lincoln	Mary A. Paul	600	1879
“	Alice B. Chadwick	575	1883
Cedar Street . . .	Alice Simpson	550	1872
“ “	Alice M. Porter	550	1880
Teacher of Music . .	S. H. O. Hadley	1,333	1868

PUPILS.

Number of pupils in attendance in January . . .	4,518
Number of persons in the city, whose ages were between five and fifteen years, on the first day of May last, as ascertained by the Truant Officer	5,478
Increase for the year	376
Number between eight and fourteen years of age .	3,400
Number in attendance in December	4,767
In the High School	275
" Grammar Schools	2,286
" Primary Schools	2,206
Number over fifteen years of age in December .	403
Whole number registered during the year . . .	5,726
Number in attendance in December, 1882 . . .	4,511

TABLE SHOWING THE NUMBER OF PUPILS IN EACH OF THE THIRTEEN CLASSES IN DECEMBER, THE AVERAGE AGE OF PUPILS IN EACH CLASS, AND THE PER CENT. THAT THE NUMBER IN EACH CLASS IS OF THE NUMBER IN ALL THE CLASSES.

GRADE.	Class.	Boys.	Girls.	Total.	Average Age.	Per cent.
High . . .	First . . .	17	28	45	18 yrs. 3 mos.	.95
" . . .	Second . .	25	31	56	17 " 2 "	1.17
" . . .	Third . .	33	45	78	16 " 7 "	1.64
" . . .	Fourth . .	33	63	96	15 " 8 "	2.01
Grammar .	First . . .	95	108	203	14 " 9 "	4.26
" .	Second . .	120	151	271	14 " 0 "	5.68
" .	Third . .	166	149	315	13 " 3 "	6.61
" .	Fourth . .	222	179	401	11 " 11 "	8.41
" .	Fifth . . .	236	223	509	11 " 3 "	10.68
" .	Sixth . . .	353	234	587	10 " 3 "	12.31
Primary . .	First . . .	341	295	636	9 " 2 "	13.34
" . .	Second . .	323	270	593	7 " 10 "	12.44
" . .	Third . .	572	405	977	6 " 5 "	20.50
Total . .	. . . . .	2,586	2,181	4,767	. . . . .	100.00

ATTENDANCE.

Average whole number in all the schools for the year	4,438.4
High School	261.5
Grammar Schools	2,158.8
Primary Schools	2,018.1
Average attendance in all the schools for the year	4,191.0
High School	254.1
Grammar Schools	2,060.1
Primary Schools	1,876.8
Per cent. of attendance in all the schools for the year	94.4
High School	97.2
Grammar Schools	95.4
Primary Schools	93.0
Number of tardinesses in all the schools for the year	2,851
High School	178
Grammar Schools	1,227
Primary Schools	1,446
Number of dismissals in all the schools for the year	2,122
High School	392
Grammar Schools	953
Primary Schools	777

MONTHLY REPORTS OF TRUANT OFFICERS.

1883.	Cases Inves- tigated.	Cases of Truancy.	Number placed on probation.	Number sent to House of Reformation
January	25	6	. . .	1
February	22	12		
March	28	14		
April	21	15		
May	18	11		
June	20	11		
September	19	11		
October	21	9	3	2
November	18	7	1	
December	12	7		
	204	103	4	3

WM. H. BRINE,
JAIKUS MANN,
Truant Officers.

PRIMARY SCHOOLS.

The primary schools contain forty-six per cent. of all the pupils in the several schools. Of the forty-two schools of this grade, thirty contain one class each; nine, two classes each; and one contains three classes. In eight of these schools there has been no case of corporal punishment during the year.

Number of pupils in January	.	.	.	.	.	2,048
Number admitted during the year	.	.	.	.	.	950
Number promoted to the grammar schools	.	.	.	.	.	470
Number in attendance in December	.	.	.	.	.	2,206
Average number to a teacher	.	.	.	.	.	55
Number registered during the year	.	.	.	.	.	2,998

Rare qualifications are essential for the successful management of primary schools. Each succeeding year the impression becomes more general, that only such teachers as have had special training in the art of teaching, should be entrusted with the education of young children. In some of the best German elementary schools, men of literary distinction are employed in teaching children the rudiments of learning; and in the highly organized Jesuit schools it was a regulation that only those teachers who had been specially successful in the higher classes, should be entrusted with the care of the lowest.

It was said by Horace Mann: "It ought to be universally understood and intimately felt, that, in regard to children, all precept and example, all kindness and harshness, all rebuke and commendation, all forms, indeed, of direct or indirect education, affect mental growth, just as dew and sun and shower, or untimely frost, affect vegetable growth. Their influences are integrated and made one with the soul, and though imperceptible in childhood, work out more and more broadly into beauty or deformity in after life."

EXHIBIT OF THE PRIMARY SCHOOLS.

SCHOOLS.	TEACHERS.	Average Whole Number.	Average Attend- ance.	Per Cent. of Attend- ance.
Forster	M. H. Pennock	49.1	46.6	94.9
* "	A. S. Winnek	34.8	32.5	93.4
"	L. V. Colby	43.4	41.0	94.5
"	L. G. Perry	49.2	45.7	92.9
"	A. S. Gage	44.0	40.4	91.8
Prescott	S. E. Pratt	49.4	47.0	95.1
"	F. A. Robinson	48.8	46.8	95.9
"	E. M. Plummer	53.9	51.1	94.3
"	Lillian Nealley	51.7	47.9	92.6
"	F. M. Morton	48.9	44.2	90.4
Edgerly	H. V. Hathaway	41.0	39.3	95.8
"	A. L. Prescott	51.4	48.7	94.7
"	C. M. Bagley	52.0	48.6	93.4
"	Ada Cowles	49.2	45.3	92.1
Tutts Street	L. A. Burns	39.1	36.7	93.8
L. V. Bell	Kate O'Brien	59.2	55.6	93.9
"	A. M. Houghton	56.0	51.6	92.1
"	E. L. Schuh	62.3	57.2	91.8
Prospect Hill	M. B. Currier	42.2	39.2	92.6
"	N. A. Hamblin	39.1	37.1	94.9
"	C. I. Houghton	49.6	45.9	92.5
Brastow	L. D. Harding	55.6	51.8	93.2
Bennett	Maria Miller	49.4	46.8	94.7
"	I. E. Taylor	61.4	54.0	87.9
Jackson	A. C. Damon	50.0	45.6	91.2
"	M. M. Hobson	50.0	46.2	92.4
"	A. E. McCarty	57.0	53.8	94.4
*Webster	C. J. Whittemore	33.8	30.5	90.2
"	A. L. Savage	56.3	53.2	94.5
Union	I. M. Prince	52.3	48.3	92.3
Beech Street	M. E. Bosworth	41.9	40.4	96.4
"	Z. E. Freeman	43.8	41.0	93.6
Spring Hill	A. E. Furber	44.2	40.4	91.4
Franklin	E. C. Summerhayes	47.7	44.9	94.1
"	C. S. Plimpton	52.4	51.2	97.7
Harvard	A. E. Robinson	41.0	35.9	87.5
Highland	A. P. Lord	37.5	36.0	96.0
"	S. E. Pray	47.1	44.3	94.0
"	C. M. Smith	54.5	50.3	92.3
Lincoln	S. A. Mattoon	43.1	40.3	93.5
Cedar Street	Alice Simpson	37.7	35.4	93.9
"	A. M. Porter	47.1	38.1	80.9
		2018.1	1876.8	93.0

*Organized in September.

GRAMMAR SCHOOLS.

The grammar schools contain forty-eight per cent. of all pupils in the public schools. In ten of these schools there has been no case of corporal punishment during the year. Two schools report no case of tardiness, and ten one case each. In two schools there have been no dismissals.

Number of grammar schools	50
Increase for the year	2
Number of pupils in January	2,199
Number received from the primary schools	470
Number in attendance in December	2,286
Average number to a school	45
Number over fifteen years of age in December	157
Whole number registered during the year	2,439

At the close of the school year in June, one hundred fifty-one pupils were graduated at the several grammar schools.

From the L. V. Bell School	44
“ Prescott School	34
“ Morse School	26
“ Forster School	24
“ Highland School	23
Number promoted to the first class in June	196
“ “ “ second class in June	265
“ “ “ third class in June	302
“ “ “ fourth class in June	381
“ “ “ fifth class in June	418
“ “ “ sixth class in June	470

Eighty-seven of the graduates from the grammar schools entered the high school in September.

From the Prescott School	19
“ L. V. Bell School	19
“ Forster School	18
“ Morse School	18
“ Highland School	13

The course of study prescribed for our grammar schools is, substantially like the courses adopted by most cities in the Common-

wealth, and, in many respects, is satisfactory. In some branches, however, at certain stages of advancement, the requirements are in excess of the capabilities of our pupils.

The preparation of courses of study, is one of the most difficult and important duties required of school officers. The Public Statutes prescribe the studies to be pursued, define school age, and the period during which school attendance is compulsory; but the responsibility of limiting school time, selecting text-books, prescribing the extent to which they shall be pursued, and of apportioning the work among the several classes, devolves upon school committees. The efficiency and success of the schools depend, in large degree, upon the wisdom exercised in these particulars.

The tendency of the times is, to extend the curriculum of the schools, to the loss of thoroughness in the more essential branches of instruction, and to curtail school time without a corresponding diminution of the amount required in each particular branch of study. Some compensation is found in the increase of facilities, and in improved text-books and methods of instruction; still the work demanded is in excess of ability to perform. The present generation of pupils evince no increase of aptitude in acquiring knowledge, and they derive comparatively little advantage from the accumulations of preceding generations.

“When did Age transfer to Youth
The hard-gathered lessons of its day?”

All are compelled to begin with the rudiments of learning, and to advance by slow stages up its rugged way.

Were less attempted, more, doubtless, would be accomplished for the permanent good of our pupils. In order, under existing circumstances, that the work required may be completed in the allotted time, much of it is performed by the teachers, to the injury of their pupils. The teacher's province is to guide, stimulate, and encourage pupils to exercise their activities; to train them to the formation of correct habits of study; to use all healthful incentives, and to impose all needful restraints, with a view to the formation of strong, symmetrical, and noble characters; but never to perform, for pupils, their legitimate and essential work.

We cannot emphasize too strongly, that the young are educated, not by what is done for them, but by what they do for themselves,

under wise direction ; not by what is communicated to them, but by what they acquire by their own earnest, persistent endeavor. The most valuable teacher, therefore, is he who is most successful in training his pupils to habits of patient study and careful investigation ; who teaches them the art of gaining knowledge, unaided, from the printed page and the ever-open book of nature, and to make a wise application of what they know. The success of our pupils in the labor of life, will be greatly promoted by the mental strength evolved, and the self-reliance induced, by patient, persevering study, and the independent exercise of their capabilities.

If the curriculum of the schools is too extensive, and the work required is excessive, the inquiry is pertinent : Why are they not abridged to conform to the capabilities of the learner ? Within certain limitations, they are, in practice. But the interests of the various cities and towns of the Commonwealth are so interwoven, and the interchange of pupils is so frequent and general, uniformity of practice and conformity to prevailing sentiment and usage, seem to be a necessity. Besides, in matters of public concern, the convictions and judgment of individuals, must yield to popular sentiment and demand.

EXHIBIT OF THE GRAMMAR SCHOOLS.

SCHOOLS.	TEACHERS.	Average Whole Number.	Average Attend- ance.	Per Cent of Attend- ance.
Foster	J. S. Hayes	28.7	27.8	96.9
"	M. E. Stiles	39.9	37.9	95.0
"	E. H. Wilde	41.2	39.2	95.1
"	F. M. Guptill	50.0	47.4	94.8
"	M. E. Wild	39.6	37.4	94.4
"	A. A. Batchelor	41.5	39.3	94.7
"	A. T. Couch	35.4	33.8	95.5
Prescott	G. A. Southworth	44.7	44.1	98.6
"	Adelaide Reed	35.9	34.9	97.2
"	C. G. Fogg	36.4	35.6	97.8
"	E. M. Cate	40.3	38.9	96.5
"	A. A. Anderson	46.5	44.8	96.3
"	C. T. Brown	51.6	49.4	95.7
"	Clara Taylor	54.5	52.1	95.6
Edgerly	F. P. Hudson	38.1	37.0	97.1
"	A. I. Sears	46.3	44.7	96.5
"	H. M. Pierce	53.4	51.8	97.0
"	H. H. Winslow	54.8	52.8	96.3
L. V. Bell	Robert Bickford	53.9	52.7	97.8
"	M. H. Marden	52.1	50.2	96.3
"	E. M. Gooding	43.1	41.3	95.8
"	F. A. Wilder	43.6	42.4	97.2
"	M. E. Berry	50.1	48.9	97.6
"	L. F. Howe	43.5	41.5	95.4
"	E. F. Schuh	40.5	38.1	94.1
"	A. M. Snow	45.1	43.7	96.9
"	L. J. Page	57.6	55.2	95.8
Prospect Hill	Helen Tincker	48.2	45.5	94.4
"	Elvira Morrill	49.6	47.6	95.9
"	Ellen Ledyard	47.5	45.1	94.9
Brastow	S. E. Pennock	55.6	51.8	93.2
Bennett	A. A. Roberts	37.8	34.4	91.0
Jackson	John Wilson	41.7	37.9	90.9
Webster	M. L. Longfellow	37.0	34.2	92.4
Morse	F. F. Murdock	26.5	25.9	97.7
"	Corinne Harrison	25.8	25.0	96.9
"	P. S. Downes	36.7	36.1	98.3
"	A. E. Sawyer	45.1	43.5	96.4
"	E. F. Gould	49.2	45.2	91.8
"	M. A. Haley	40.0	38.0	95.0
* "	L. J. Brooks	29.5	28.5	96.6
Franklin	H. A. Holbrook	33.9	31.5	92.9
"	H. A. Hills	42.4	40.2	94.8
Highland	G. E. Nichols	51.3	49.3	96.1
"	Jennie Colburn	44.3	41.6	93.9
"	L. J. Conwell	45.7	43.1	94.3
"	S. A. Blood	48.8	45.4	93.0
"	A. R. Cox	47.0	44.8	95.3
Lincoln	M. A. Paul	31.4	29.3	93.3
† "	A. B. Chadwick	35.5	33.3	93.8
		2,158.8	2,060.1	95.4

* Organized in January. † Organized in September.

HIGH SCHOOL.

Whole number of different pupils during the year	376
Largest number at one time	278
Number admitted during the year	108
From our grammar schools	90
From other schools	18
Number graduated	43
Number of graduates who entered college	7
Number who entered Boston University Medical School	1
Number who entered the School of Technology	4
Number who have left the School during the year, exclusive of graduates	58
Whole number at the present time	275
Number over fifteen years of age	246
Number in course preparatory to college	78
Number pursuing the regular course	165
Number pursuing the English course	32
Number in the first class on entering the school	107
Number at the present time	45
Number in the second class on entering the school	94
Number at the present time	56
Number in the third class on entering the school	111
Number at the present time	98
Number in the fourth class on entering the school	96
Number at the present time	96

Number of pupils at the present time is about 6 per cent. of the number in attendance in all the schools.

The number of pupils graduated this year, is six more than the largest number graduated in any previous year.

THIRTY-FIRST ANNUAL EXHIBITION OF THE SOMERVILLE
HIGH SCHOOL, TUESDAY, JUNE 26, 1883, AT 9 O'CLOCK A.M.

ORDER OF EXERCISES.

SINGING.*—Solo and Chorus: Qui Tollis—Mass in B flat. *Farmer.*
Vocal March. *Southard.*

1. SALUTATORY IN LATIN. ARTHUR H. OSGOOD.
2. ESSAY. *Nihilism.* EDWARD W. HARNDEN.
3. READING. Daisy's Faith. *Mathews.* JENNIE M. KEYES.
4. READING. Mona's Waters. MARY E. O'BRIEN.
- SINGING.—Unison Solo: The Two Grenadiers (male voices).
Schumann.
- Cradle Song (female voices), *Taubert.*
5. ESSAY. *Two Hills.* GEORGIA SMITH.
6. READING. The Catholic Psalm. *Hubbard.*
NELLIE M. SYLVESTER.
7. FROM "MARIA STUART." *Schiller.*
MARY C. ALLEN, ELEANOR L. ROBINSON.
8. READING. Higher Education for Women. *Century.*
LILLIAN V. LOVEJOY.
- SINGING. Selections from "Lohengrin." *Wagner.*
a. Introduction—Act III. (orchestra alone).
b. Bridal Chorus.
9. FROM "HAMLET." (Original Version in Greek).
ALBERT D. DAVENPORT, GEO. W. FOSTER.
FRED M. PERKINS, FRANK C. STOWELL.
10. READING. Selected. MINNIE G. CURVILLE.
11. ORIGINAL CONTRIBUTIONS. ABBIE A. MATTOON.

RECESS.

MUSIC.—Overture "Iolanthe" (Orchestration by Henry Hadley).
Sullivan.

SINGING.—From "Loreley:" a. Ave Maria (female voices).
b. Vintage Song (male voices).
Mendelssohn.

12. ESSAY. *Sounds.* ANNIE C. THAYER.
13. FROM "L'AVOCAT PATELIN." *Brueys.*
FRANK C. CHAPIN. HERBERT A. WILCOX.
HERBET M. HOWES, FRED I. WRIGHT.
ALBERT C. TUFTS, MINNIE S. TURNER.
14. ESSAY. *We.* HATTIE RAYMOND.
15. READING. *Ginevra.* Coolidge.
ELEANOR C. BOOTHBY.

16. POEM. CHARLES H. ST. JOHN.
 SINGING—Semi-Chorus: Bird Song. *Taubert.*
 Solo and Chorus: Sanctus,—St. Cecilia's Mass (with organ)
Gounod.
17. NIOBE. ELWOOD G. TEWKSBURY. *Ovid.*
18. PROPHECIES. RUTH C. MILLS.
19. VALEDICTORY. FLORENCE L. GOODHUE.
20. PRESENTATION OF DIPLOMAS, BY MAYOR JOHN A. CUMMINGS.
21. PARTING HYMN.

MEMBERS OF THE GRADUATING CLASS.

Lena Gertrude Allen,
 Mary Charlotte Allen,
 Carrie Louise Blake,
 Eleanor Chadbourne Boothby,
 Helen Fleming Bowie,
 Hattie Amanda Cheney,
 Lucy Estelle Clark,
 Minnie Gertrude Curville,
 Fannie Eliza Dillon,
 Elizabeth Veronica Finegan,
 Florence Lizzie Goodhue,
 Jennie Madelin Keyes,
 Lillian Virginia Lovejoy,
 Susie Augusta Mattoon,
 Ruth Caroline Mills,
 Mary Etta O'Brien,
 Belle Frances Powers,

Hattie Raymond,
 Eleanor Louise Robinson,
 Clara May Smith,
 Georgia Smith,
 Mary Isabel Snow,
 Nellie Maude Sylvester,
 Annie Cleveland Thayer,
 Minnie Stimpson Turner,
 Harriet Ellen Vickery,

Frank Colburn Chapin,
 Edward Warren Harnden,
 William Thomas Harney,
 Charles Hartwell St. John,
 Albert Clifford Tufts,
 Herbert Augustus Wilcox,
 Fred Irving Wright.

COURSE PREPARATORY TO COLLEGE.

Henry Blanchard Barber,
 Albert Dudley Davenport,
 Geo. Waldo Foster,
 Herbert Morton Howes,
 Arthur Henry Osgood,

Fred Miller Perkins,
 Frank Caleb Stowell,
 Elwood Gardner Tewksbury,
 Margaret Teresa Keefe,
 Abbie Antoinette Mattoon.

EVENING SCHOOLS.

The evening school which was in operation at the beginning of the year, in the Webster school-house, under the charge of Mr. John Wilson and three assistants, was continued thirty-three evenings.

Whole number registered.	80
Males, 59 ; females, 21.	
Largest number in attendance	72
Average attendance	43

The school in the Cedar street school-house under the care of Mr. L. B. Pillsbury and one assistant, was continued twenty-five evenings.

Whole number registered	55
Males, 45 ; females, 10.	
Largest number in attendance	45
Average attendance	22
Cost of instruction in both schools	\$337 00
Janitors' services	66 75
Total cost	\$403 75

HEALTH.

We respectfully invite earnest attention to the important subject of school hygiene, and solicit a careful revision of practice pertaining thereto.

An impression very generally prevails that the prime object of public schools is the development of mental strength and activity, and the bestowment of such knowledge as is helpful in the performance of the ordinary duties of life. But education in its broadest significance has respect to the complete and harmonious development and training of all the powers and faculties of our entire being. The true educator, therefore, has due regard to physical training and moral culture, as well as to mental development and the promotion of sound learning.

As recipients of the trust delegated to us of directing the education of the youth of our city, we assume in large measure parental responsibilities, and become the custodians of whatever pertains to the well-being of those committed to our care.

In our solicitude to promote the intellectual advancement of our pupils, we should never forget that an education obtained at the cost of impaired health and an enfeebled constitution, is purchased at too costly a sacrifice. We should earnestly endeavor to preserve and promote the health of our pupils and secure to them, if possible, the priceless treasure of a sound, vigorous body as well as a highly cultivated and liberally endowed mind. "A sound mind depends greatly upon a sound body." Rosseau says: "Make your pupil robust and healthy in order to make him reasonable and wise."

Under the most favorable circumstances there are unavoidable conditions, incident to school-life, that are prejudicial to the maintenance of sound health: as confinement and unnatural quiet, for several hours daily, in dusty and imperfectly ventilated school-rooms; exposure to cold draughts of air and sudden changes of temperature; constrained positions of the body; severe and protracted use of the eyes, often under trying circumstances; continuous mental effort accompanied not infrequently by undue anxiety; increased liability to contagious diseases.

To mitigate these conditions, and to counteract their influence, by all available means, should be our earnest and constant endeavor. We will briefly consider the conditions specified.

ATMOSPHERIC CHANGES.—An ample supply of pure air, and an agreeable, equable temperature, are indispensable conditions of health and comfort. To maintain these with imperfect and inadequate means of heating and ventilating, and in the variable climate of this region,—which has been aptly styled "the perpetual battle-ground of the Torrid and Arctic, where they alternately prevail,"—requires incessant vigilance, and imposes duties, the neglect of which, may result in fatal consequences.

Pure air contains twenty-one per cent. of oxygen which is its life-sustaining element, seventy-eight per cent. of nitrogen, and one per cent. of carbonic acid. At each respiration about five per cent. of the oxygen disappears and an equal quantity of carbonic acid and other deleterious substances supply its place. Since the average number of respirations is twenty per minute, and the average quantity of air inspired at each respiration is thirty cubic inches, it is apparent that the vitality of the air, in crowded apartments, is rapidly diminished, and that its frequent and complete renovation is an imperative necessity.

To maintain a healthy condition of the atmosphere, it is estimated that, at least, four cubic feet of fresh air should be supplied to each individual every minute; hence a school-room containing fifty pupils should be furnished, each hour, with twelve thousand cubic feet, a quantity equal in capacity to that of an ordinary school-room. To accomplish this result, doors and windows must be resorted to frequently, for the admission of pure air and the exclusion of that which has lost its vitality. To do this, and not endanger the health of pupils, is a problem by which teachers are constantly confronted.

VENTILATION. — Concerning ventilation we have yet much to learn; but the item of expense prevents, in large degree, an application of the knowledge already acquired. The great desideratum is ample provision, by means of suitable heating apparatus, for the introduction into school-rooms of large volumes of pure air at the proper temperature for health and comfort, instead of, as at present, small quantities at a high temperature, and, also, for the exclusion of equal volumes of vitiated air through ventil ducts well distributed and sufficiently heated to produce an active current. Under such circumstances, a proper balance would be maintained between the air admitted and the air excluded; the supply would always equal the demand; the air would be pure and healthful at all times; and pupils would not be exposed to cold currents and sudden changes of temperature.

For the exclusion of impure air, the ventilating registers should be kept open both at the top and bottom of the room, except when it is desirable to economize heat; then they should be opened at the bottom only. Whenever it is necessary to change the air while the school is present, the windows should be opened for a few minutes, and the pupils should engage in brisk physical exercises. If any are in delicate health they should occupy positions least exposed to the incoming air, and protect themselves, if necessary, by outer garments. Immediately after the close of each session of the schools, and during the time of the recesses, all the doors and windows should be thrown wide open, that the air in the school-rooms may be thoroughly renovated.

CAUTIONS AND SUGGESTIONS.—Under no circumstances should pupils be exposed to currents of cold air when they are not in motion. We would strongly emphasize this caution, for we regard such exposure a more fruitful source of colds and their

attendant dangerous consequences, than all other causes, incident to school-life, combined. *Occasion for adverse criticism in this regard should be avoided.* An eminent physician has said: "Though foul air is a slow poison, we must not forget that a *blast of cold air may slay like a sword.*"

The temperature of the air in the school-rooms should be kept as equable as possible, and should not deviate materially from 68°. As sensation is not a reliable criterion, the thermometer should be consulted frequently and at stated periods.

Except in stormy weather, all pupils should be required to spend the entire recess in the open air, and should be encouraged to engage in vigorous, healthful sports.

Pupils should never be allowed to sit in school with wet feet or damp clothing. If the means for drying them in the school-room are insufficient, they should be sent immediately to their homes.

We commend the practice, so generally pursued, of requiring pupils, in inclement weather, to put on their outer garments before they leave their respective buildings for recess or to return to their homes.

By the Regulations of the School Board, teachers are required to be present and to open their school-rooms for the reception of pupils, both morning and afternoon, fifteen minutes at least before the time for school to begin.

We would advise that in cold or stormy weather, pupils be retained at their homes until they will be sure of gaining admission to their school-rooms.

Great caution should be exercised to avoid injury to the eyes of pupils. The morning hour should be used for exercises which severely tax the sight. Such exercises should not be protracted, especially when the light is faint. Never allow the sun to shine upon pupils' books or desks. A few plants well cared for, are usually interesting to children, and add to the attractiveness of a school-room; but when they are so situated as to prevent the free opening and closing of the blinds, and are the means of causing the sun's rays to fall upon the books and desks of the pupils, they should be removed.

We invite special attention to the following excellent rules for the care of the eyes, prepared by Dr. D. F. Lincoln, of Boston :

When writing, reading, drawing, sewing, etc., always take care that

- (a) The room is comfortably cool and the feet warm;
- (b) There is nothing tight about the neck;
- (c) There is plenty of light, without dazzling the eyes;
- (d) The sun does not shine directly on the object you are at work upon, or upon objects in front of you;
- (e) The light does not come from in front; it is best when it comes over the left shoulder;
- (f) The head is not very much bent over the work;
- (g) The page is nearly perpendicular to the line of sight; that is, that the eye is nearly opposite the middle of the page, for an object held slanting is not seen so clearly;
- (h) That the page or other object is not less than fifteen inches from the eye.

In any case, when the eyes have any defect, avoid fine needlework, drawing of fine maps, and all such work, except for very short tasks, not exceeding half an hour each, and in the morning.

Never study or write before breakfast by candle-light.

Do not lie down when reading.

Avoid reading or sewing by twilight, or when debilitated by recent illness, especially fever.

UNDUE ANXIETY.—In the management of the schools, we should endeavor to guard against all disturbing influences and whatever tends to undue excitement or nervous irritability and depression; for these are not only detrimental to health, but positive hindrances to intellectual advancement. Method and simplicity of arrangement conduce to quiet and to effective work. The more complicated the machinery the greater the liability to derangement and friction. In the assignment of lessons, we should aim to keep within the limit of our pupils' capabilities. We should give them the stimulus and pleasure of success, and save them, when possible, from the discouragement of failure. In all test exercises, we should avoid the parade of percentages, and the comparison of results, as incitements to effort. The *pleasure of acquiring* is the true incentive to acquisition. No home study should be required of pupils under twelve years of age.

PHYSICAL EXERCISES.—We would earnestly recommend the regular and systematic practice of physical exercises in all the schools. The many advantages which accrue, more than compensate any apparent loss of time required. By our Regulations fifty minutes

a week are assigned for these exercises in the primary schools, and thirty minutes in the grammar schools. The specific requirement of the primary schools, is from three to five minutes twice each session. The exercises should be short, brisk, and frequent, never sufficiently prolonged to induce weariness.

The following are some of the beneficial results of calisthenic exercises: "The weariness of long-continued sitting is dispelled; the nervous restlessness, which so often disturbs the order of the school, is allayed; headaches and other forms of nervous ailments, are diminished; the tendency to distortion, incident to sitting in one position, is overcome; a greater amount of intellectual work is secured, and grace of attitude and gesture is developed."

CONTAGIOUS DISEASES. — The liability to the propagation of contagious diseases, occasioned by the massing in the schools of large numbers of persons from all localities, requires the adoption and enforcement of stringent precautionary regulations. Public safety demands of all persons having in charge the interests of the schools, extreme vigilance in regard to health, and constant fidelity in the observance of such precautionary regulations.

The following provisions of Chap. 26, of the General Statutes, are enforced in our city: —

"SECT. 47. When a householder knows that a person within his family is taken sick of any disease dangerous to the public health, he shall immediately give notice thereof to the Board of Health in the town in which he dwells. If he refuses or neglects to give such notice, he shall forfeit a sum not exceeding one hundred dollars."

"SECT. 48. When a physician knows that any person whom he is called to visit is infected with any disease dangerous to the public health, he shall immediately give notice thereof to the Board of Health of the town; and if he refuses or neglects to give such notice, he shall forfeit for each offence a sum not less than fifty nor more than one hundred dollars."

The diseases specified by our Board of Health as dangerous to public health, and of which they require a report, are small-pox, scarlet fever, diphtheria, and typhoid fever.

The following is the order of the Board of Health which applies to the schools : —

It is hereby ordered:—

“That no child from any family in which a case of scarlet fever has occurred, or shall hereafter occur, shall, without a written permit from this Board, attend any school in this city until the expiration of *four weeks* from the commencement of the last case in such family. Such length of time shall be certified in writing by a physician or some responsible member of the family ; the certificate to be presented to the teacher of the school before the child is admitted.”

By the Rules of the School Board, no child can be admitted to our public schools without satisfactory evidence that he has been secured against small-pox ; and no pupil affected with any contagious or infectious disease or directly exposed to the same, shall be allowed to attend the public schools.

CONCLUSION.

Ever since the great educational awakening inaugurated and fostered by the indomitable energy and unquenchable enthusiasm of Horace Mann, the public schools of our Commonwealth have been gradually and constantly improving. From their various complications their improvement has been, of necessity, slow, but permanent and substantial. The celebrated Dr. Arnold said : “I came to Rugby full of plans for school reform ; but I soon found that the reform of a public school was a much more difficult thing than I had imagined.”

Spasmodic reforms in every department, are like meteors that rush across the sky and dazzle by their brilliancy for a brief period only, and suddenly disappear. But the advance of all great movements, by which the moral and intellectual uplifting of the race is effected, like the incoming tide of the ocean or the sun in his course, is apparently slow, but steady, constant, and sure. In matters of minor moment, causes and their effects frequently follow each other in quick succession ; but in great and far-reaching reforms, they are often separated by long intervals of time.

The progress of the schools, and the rapid increase of facilities for their improvement, furnish an interesting chapter in the history of the last fifty years. Previous to the organization of the State

Board of Education, in 1837, there was only one institution in the State designed especially for the preparation of teachers for their work, and only one publication, of any note, for the dissemination of information relating to educational subjects. There were no systematic courses of study, no conventions or associations for the interchange of opinions or comparison of practice, and comparatively few books from which teachers could gain information of practical value. In most towns, and in many cities, school architecture was of a rude type, and great apathy pervaded communities in regard to the interests of education.

Horace Mann, the first Secretary of the Board of Education, made the following statement concerning the condition of the public schools at the time he entered upon the duties of his office:—
“In this Commonwealth there are about three thousand public schools, in all of which the rudiments of knowledge are taught. These schools, at the present time, are so many distinct, independent communities; each being governed by its own habits, traditions and local customs. There is no common, superintending power over them: there is no bond of brotherhood or family between them. They are strangers and aliens to each other. The teachers are imbedded, as it were, each in his own district, and are to be excavated, brought together, and established as polished pillars of a holy temple. As the system is now administered, if any improvement in principles or modes of teaching, is discovered by talent, or accident, in one school, instead of being published to the world, it dies with the discoverer. No means exists for multiplying new truths, or even for preserving old ones.”

Great changes have been effected, in these respects, during the last forty years. At the present time, there are six State Normal Schools, and various other institutions of learning with courses of study having special reference to the preparation of teachers. From these preparatory schools, hundreds of persons are annually graduated with qualifications of high order. By means of teachers' institutes and conventions, numerous educational publications, lectures, essays, discussions, and works upon the science of education and the art of teaching, teachers become familiar with the theory and practice of the most eminent and successful educators in all leading nations. Many men of the highest order of ability in our own country, and in other lands, are devoted to the consideration of the great problems of education, and are

laboring earnestly for the improvement of methods of instruction, and for the general diffusion of knowledge.

Our own schools have kept pace with the onward march of improvement. They have always maintained an honorable position in the front ranks of the best schools in the Commonwealth. It is our pleasure to report that, with scarcely an exception, the schools of the present year have sustained the reputation of those of former years, and have made important advances. Probably at no previous period have all the conditions of successful school work been more fully realized than during the present year. No prevailing diseases have seriously affected the attendance of pupils or materially interfered with regular school duties. With the exceptions already specified, the school buildings and their various appurtenances are in good condition. Pupils have been well accommodated, kindly cared for, and skilfully instructed. They have reciprocated by regular and punctual attendance, commendable application, cheerful submission to authority, and respectful and courteous demeanor. The order of the schools has been unexceptionable and secured mainly by mild measures. The instruction imparted has been thorough, and in accordance with the most highly approved methods. With rare exceptions, cordiality, mutual forbearance and coöperation have marked the relations of parents and teachers.

Our best schools closely approximate the following: —

The buildings have a healthy and quiet situation and pleasant surroundings. The school-rooms are spacious, light, and attractive, and are furnished with every appliance needful for health, convenience, and successful school work. Pupils are punctual, regular in attendance, studious in their habits, orderly in conduct, and courteous in demeanor. Teachers possess all the endowments and attainments, all the qualities of mind and heart, which are essential to eminent success in their important and noble avocation. Programmes of exercises are arranged with a view to the strictest economy of time and the relative importance of each particular branch of instruction. The work of the entire term, and of each individual day, is anticipated and provided for. No loss of time is incurred through negligence or delay. All lessons are carefully considered before they are assigned; all difficult and important principles are elucidated; and correct habits of study are inculcated. School records and all work to be copied, exhibit

the care which an accomplished accountant bestows upon his ledger. In discipline, firmness and decision are accompanied by justice and kindness. Mutual confidence and respect mark the relations of teachers and pupils. With constant fidelity, all known and available means are employed to promote physical health, intellectual invigoration, and moral culture.

Such schools are blessings to communities in which they exist, beyond comparison, and the value of their influence exceeds computation; but the labor, of which they are the outcome, none can fully estimate except those by whom it was performed. Carlyle says: "The built house seems all so fit, we forget the rude, disorderly quarry it was shaped from. The very perfection of the house, as if Nature herself had made it, hides the builder's merit."

The deliberations of the School Board have exhibited deep interest in the welfare of the schools, and have been characterized, at all times, by the courtesy and harmony which have ever been eminently exemplified by successive committees during our entire history. We have been stimulated in our work by the coöperation and encouragement of an intelligent and appreciative community, whose interest and solicitude for the promotion of general intelligence and the prosperity of the schools, are deep and abiding.

Respectfully submitted,

J. H. DAVIS,

Superintendent of Public Schools.

SOMERVILLE, Dec. 21, 1883.

REPORT
OF THE
SOMERVILLE MYSTIC WATER BOARD.

CITY OF SOMERVILLE.

IN BOARD OF MAYOR AND ALDERMEN, Feb. 13, 1884.

Referred to the Committee on Printing, to be printed with the Annual Reports for 1883. Sent down for concurrence.

CHARLES E. GILMAN, *Clerk.*

Concurred in.

IN COMMON COUNCIL, Feb. 14, 1884.

DOUGLAS FRAZAR, *Clerk.*

CITY OF SOMERVILLE.

OFFICE OF WATER BOARD, Dec. 31, 1883.

To His Honor the Mayor and the City Council :—

GENTLEMEN:—The Somerville Mystic Water Board present their report for the year ending December 31, 1883. A detailed and comprehensive statement of what the department has done during the year, and of the present condition of its property, will be found in the report of the Superintendent, herewith transmitted.

A large amount of pipe has been laid during the year, a great portion of it in Somerville avenue, where an eight-inch main was laid to take the place of the old six-inch main, which had become worn out, and the cause of great expense for repairs. The new line was laid about ten feet from, and parallel with, the old one, and upon a carefully prepared foundation. Under the Fitchburg Railroad crossing two hundred and sixty-four feet of extra heavy cast-iron pipe was used, as better adapted than the cement-lined pipe to withstand the jar of passing trains. The change of grade of Austin and Jaques streets rendered the lowering of the mains necessary, and new pipe was substituted where the old was found unserviceable.

Petitions are now before us for laying about twenty-five hundred feet of main pipe in different sections of the city.

The large number of services laid affords gratifying evidence of the city's rapid growth, as most of them were for the accommodation of new buildings.

Water is now supplied as follows :—

Dwelling-houses	3,836
Families in same	5,266
Model houses	143
Tenants in same	493
Stores and shops	110

Saloons	.	.	.	.	.	.	.	.	6
Offices	.	.	.	.	.	.	.	.	4
Manufactories.	.	.	.	.	.	.	.	.	6
Churches	.	.	.	.	.	.	.	.	12
For hand hose	.	.	.	.	.	.	.	.	593
Miscellaneous	.	.	.	.	.	.	.	.	54

The large number of breaks that have occurred during the year show conclusively the absolute necessity of substituting as soon as possible new pipe for the old in the street mains. This pipe, laid from fifteen to twenty years ago, was warranted for only five years, and its weakness, as shown by the frequent breaks, is increasing in an alarming ratio. Two breaks in a day have been nothing unusual during the year, and on one day five were reported, and received the attention of the department. It is easy to see that as the weakness of this old pipe is constantly increasing, so large a number of breaks may, and, judging from the past, probably will, occur at one time as to be beyond the control of the department, and subject the city to great inconvenience and damage. What would happen if a fire should break out in a closely built section of the city, while the water had been shut off by reason of one of these frequent breaks, is a question which none of our citizens would like to see answered by actual trial.

This old pipe must all be taken up very soon, and replacing it piecemeal is the most costly system the city can pursue. The repairs on the old pipe in Somerville avenue, while the new pipe was being laid parallel to it, cost the city more than three hundred dollars, an expense that would have been saved if the new pipe had been laid a year earlier.

We recommend an increase in the appropriations, that the Board may be able to begin a systematic relaying of pipe on a larger scale in those sections where the old pipe remains, beginning with the lower portions of the city, where the pressure is greatest, and the danger of breakage most imminent. The appropriation should be large enough so that this work may be done without crippling the department in its ordinary and necessary course of business. This work will have to be done, and economy demands that it be done as soon as possible.

An examination of the present condition of the works, and the record of what has been accomplished during the year, will bear

testimony to the ability and faithfulness of the Superintendent, Mr. Dennett; and we believe it will also show that a vigilant and judicious economy has been exercised in all expenditures.

To the Somerville police, through whose watchfulness thirty-nine leaks were discovered and reported, and other information given, thereby, doubtless, saving the city damages, the thanks of the Board are tendered.

Respectfully submitted,

J. O. HAYDEN.

JOHN F. NICKERSON.

A. R. COOLIDGE.

WALTER S. BARNES.

JAMES E. WHITAKER.

SUPERINTENDENT'S REPORT.

To the Somerville Mystic Water Board:—

GENTLEMEN :— In compliance with a rule of the Board, I present a report of the work done under my direction during the year ending Dec. 31, 1883 :

DISTRIBUTION MAINS.

The distribution mains were extended 6,411 feet (including 26 feet of hydrant pipe), which amount, added to that already laid, gives a total in the entire city of 248,640 feet or 47 miles, 480 feet.

On Somerville Avenue, 2,079 feet of eight-inch pipe were relaid in continuity (in place of the old six-inch main) ; and on Austin and Jaques Streets, 533 feet 6 inches of pipe were lowered, 380 feet of which were relaid to replace that found unserviceable. There were 64 bursts on mains, for repairing which 386 feet 6 inches of pipe were required : thus making the total of relaid pipe 2,845 feet 6 inches.

There were 28 leaks on mains from the following-named causes : rust holes, 10 ; pick holes, 9 ; joint leaks, 9. Total number of leaks and bursts, 92 ; an increase of 43 over those of 1882.

It will be noticed that the number of bursts and leaks is largely in excess of those of any previous year, a fact which is attributable chiefly to the bad condition of the mains in the lower part of Somerville Avenue (now relaid), and the streets of the immediate vicinity, 21 having occurred in that neighborhood alone.

SERVICE PIPES.

The whole number of services laid was 233, an increase of 72 over those of the previous year, giving an increase of 8,140 feet 4 inches. There are now in the city 3,838 services, aggregating 125,206 feet, or 23 miles 3,766 feet.

Twenty-six services were extended, and 17 were lowered on account of frost, and of changes in street grades. Two hundred and twenty-five feet of service pipe were used on old services.

Services were cleared, as follows :—

Pumped,	42
Thawed,	18
Tapped at corporation,	24
Of eels,	8
	<hr/>
Total,	92

Twenty-four services were repaired on account of leaks caused by broken leads, clamps, etc.; eighty-three iron service boxes were substituted for old wooden ones; and nineteen service gates were set on old services.

Water was shut off from 111 dwellings, stables, etc., for repairs, and by order of the Water Registrar for non-payment of rates.

STAND PIPES.

Nineteen stand-pipes were repaired by having new gates, boxes, pipe, valves, nipples, etc., and many were furnished with new hose.

DRINKING FOUNTAINS.

These had the usual attention, and very slight repairs were found necessary. The watering trough on Broadway, opposite the Park, and that on Medford street, corner of School street, are sources of great annoyance, as the waste pipes are frequently filled with stones, by boys, thereby causing overflows. I shall endeavor to devise some means for remedying the difficulty.

STOP-GATES.

Stop-gates were located on old mains as follows :—

Four-inch gate on Benedict Street.

Six-inch gate on Tufts Street, corner of Cross Street.

Eight-inch gate on Somerville Avenue, near Linwood Street.

Eight-inch gate on Somerville Avenue, between above-named gate and Poplar Street.

Eight-inch gate on Somerville Avenue, below Medford Street, line of pipe.

Eight-inch gate on Somerville Avenue, above Medford Street, line of pipe.

The four eight-inch gates on Somerville Avenue were all set upon the relaid line of eight-inch pipe, and of these the two latter were in place of a six-inch gate and four-inch blow-off, removed from near the corner of Medford Street.

The gate on Benedict Street was set in consequence of a change of street grade; but it has not yet been connected with the main on Austin Street, as some change is to be made in line of street.

The gates set on extension were located as follows:—

Six-inch gate on High Street, corner Prospect-hill Street.

Four-inch gate on Melvin Street, corner Bonair Street.

Six-inch gate on Madison Street, corner School Street.

Two-inch gate on Joy Street Place, corner Joy Street.

Six-inch gate on New Church Street, corner Somerville Avenue.

Six-inch gate on Boston Street, corner Prospect-hill Street.

Four-inch gate on Dover Street and Davis Square.

Four-inch gate on Leon Street.

Six-inch gate on Chauncey Avenue, corner Jaques Street.

One-inch gate on Olive Square.

Four-inch gate on Oxford Street, corner Central Street.

Four-inch gate on Hudson Street, corner Cedar Street.

Four-inch gate on Tennyson Street, corner Medford Street.

Six-inch gate on Lowell Street, corner Medford Street.

Three gates were reset, viz.:—

Six-inch gate (blow-off) on Somerville Avenue, opposite Squire's factory.

Six-inch gate on Somerville Avenue, near barrel factory.

Six-inch gate on Linwood Street, near F. R.R. Crossing.

Two gates were removed, the setting of others having rendered them unnecessary, viz.:—

Four-inch gate (blow-off) Somerville Avenue, near corner Medford Street.

Six-inch gate on Somerville Avenue, corner Medford Street.

On Fountain Avenue a three-inch gate (blow-off) was replaced by one of four inches.

Fifteen new gate boxes were set, and the customary repairs made on, and attention given to, all gates and gate boxes.

The whole number of gates in the city is 422, of which 24 are for blow-offs.

HYDRANTS.

Four new hydrants were set, two on the extension and two on old main, viz. : —

Boston machine hydrant, on Chauncey Avenue, corner of Jaques street.

Holyoke hydrant, on Lowell Street, opposite Vernon Street.

Bigelow hydrant, at end of Fremont Street.

Boston machine, Somerville Avenue, below railroad crossing.

Eight hydrants needing repairs were removed and a like number substituted, as follows : —

Adams Street, Boston machine in place of Bigelow.

Union Square, Holyoke in place of Holyoke.

Medford Street, near North's, Holyoke in place of Holyoke.

Somerville Avenue, below railroad crossing, two Boston machines (new), in place of two old Boston machines.

Mystic Avenue and Union Street, Holyoke in place of Boston machine.

Mystic Avenue and Union Street, Holyoke in place of Holyoke.

Tenney Court, Boston machine in place of Boston machine.

Sixteen hydrants were repaired, and one, found frozen, was thawed.

The whole number of hydrants now in the city is 297. All the hydrants received great care, and no complaint of their working reached me from any source.

WORK OF DEPARTMENT SHOPS.

There were made and lined in the shops of the department 7,670 feet of cement-lined pipe, and 285 new service connections. Twelve gates and eight hydrants were repaired; 425 large iron clamps, and all clamps and appliances for services were fitted, and innumerable repairs made incidental to the business of the works.

STOCK ACCOUNT.

Pipe lined	\$235 00
Pipe unlined	199 38
Sheet-iron branches lined	8 00
Sheet-iron branches unlined	7 00
Sleeves on hand	22 16
Gates on hand	74 30
Cast-iron pipe	8 44
Gate frames and covers	69 00
Cast-iron branches	221 44
Hydrants	746 11
Clamp sleeves	53 11
Tools for water works	2,128 70
Sundry material	241 21
Water service material	679 61
Tools for water service	379 40
Stable department	1,260 81
Office furniture	198 00
Total	<u>\$6,531 67</u>

WATER PIPE RELAID IN 1883.

LOCATION.	2 in.	3 in.	4 in.	6 in.	8 in.
Austin St.	310'	
Benedict St.	4'		
Belmont St.	7'		
Bond St.	5'	
Chester St., off Cross St.	7'		
Craigie St.	7'		
Cross St., near Alston St.	5'		
Cross St., near Medford St.	5'		
Dane St.	8'	
Elm St.	5'	
Elm St., near Grove St.	6'	
Emerson St.	20'		
Everett St.	7'		
Fitchburg St.	7'		
Fountain Ave.	7'		
Franklin St.	14'	
Franklin St., near Oliver St.	7'	
Homer Sq.	3'		
Jaques St.	77'		
Linden St.	5'	
Linwood St.	10'6"	
Linwood St., cor. Fitchburg St.	5'		
Maple St.	27'		
Marshall St.	7'	
Medford St.	7'	6'
Merriam St.	7'		
Morrison St.	6'		
Myrtle St.	7'
Mystic Ave.	14'	
Newbury St.	5'	
Prescott St.	5'	
Poplar St.	14'		
Poplar St., near Somerville Ave.	6'		
Prospect St.	8'	
Shawmut St., near Alston St.	7'		
Skehan St.	14'		
Somerville Ave., from Medford St. to East Cambridge line	8'	2079'
Somerville Ave., near Cambridge line	5'	
“ “ “ Railroad crossing	8'	
“ “ “ Poplar St.	7'	
“ “ “ Medford St.	11'	
“ “ “ opposite Linden St.	5'	
“ “ “ near Spring St.	6'	
“ “ “ Beacon St.	5'		
Tenny Ct.	7'		
Vinal Ave., near Summer St.	6'	
Vine St.	8'	
Walnut St., near Broadway	5'	
Warren Ave.	6'	
Washington St.	8'	

Respectfully submitted,

N. DENNETT,

Superintendent.

REPORT
OF THE
OVERSEERS OF THE POOR.

CITY OF SOMERVILLE.

IN BOARD OF MAYOR AND ALDERMEN, Feb. 13, 1884.

Referred to the Committee on Printing, to be printed with the Annual Reports for 1883. Sent down for concurrence.

CHARLES E. GILMAN, *Clerk*.

IN COMMON COUNCIL, Feb. 14, 1884.

Concurred in.

DOUGLAS FRAZAR, *Clerk*.

CITY OF SOMERVILLE.

OFFICE OF OVERSEERS OF THE POOR,
Feb. 12, 1884.

To the Mayor and City Council:

GENTLEMEN :—Again it becomes the duty of the Board of Overseers of the Poor to present you an abstract of their proceedings for the past year. The Secretary submits, in various tables, such information in regard to the workings of the Board as will be essential to the comprehension of the same.

The table containing Receipts and Expenditures for the year shows an excess of \$103.47 above receipts, also a decrease in expense since last year, of \$430.84. By comparing Table No. 1 with last year's report, it will be seen that in some items there is an increase, in others a decrease, leaving the average requirement at about \$15,000 for appropriation for the coming year; for which amount the Board respectfully petition. For the last six months of the past year, one member of the Board, Captain Lewis, Overseer and Storekeeper, has been an invalid. His duties as overseer, and in part as storekeeper, have been performed with pleasure by his associates. From the reports of his friends there is very little hope of a favorable result in his case. The store has been conducted the past year, on the same basis as before, with about the same results, giving the Poor more groceries for the money without extra cost to the city.

The Board still repeat the statement that an Almshouse is required for the economical and humane care of the poor.

On account of the illness of Captain Lewis, no report from the store is given.

JESSE J. UNDERHILL,
THOMAS CUNNINGHAM,
Overseers of the Poor.

Table No. 1.

Total number of families aided by orders in city	173
“ “ persons aided	559
“ “ orders for Groceries	1,120
“ “ “ Fuel	632
“ “ “ Boots, Shoes, Clothing, etc.	160
“ “ orders	1,912
“ “ city families	108
“ “ persons in same	324
“ “ families chargeable to other towns and cities	24
“ “ persons in same	82
“ “ unsettled families in part paid by State	41
“ “ persons in same	153
“ “ cases aided by other towns and cities chargeable to Somerville families and individual persons	59
Cost of said aid	\$2,405 70
No. of persons or families for whom board is paid	23
Cost of same	2,051 21
“ families for whom rent is paid	25
Cost of same	1,059 46
“ persons in public institutions, insane, idiotic, prisoners, truants, etc.	44
Cost of same	4,439 13
“ Burials	25
Cost of same	340 00

Table No. 2.

BOARD IN PRIVATE FAMILIES.

James Garvin	\$156 30
Garvin children	184 30
Sullivan “	200 98
Wm. J. Abbott	242 99
Children Tom Kelley	156 42
“ M. Murphy	103 71
Sylvester Sullivan	123 32
G. W. Littlefield	192 00
Wm. McLaughlin	60 00
J. J. Rogers	19 71
Edward Dempsey	126 00
Amount carried forward	\$1,574 73

<i>Amount brought forward</i>	\$1,574 73	
Richard McGrath	108 12	
A. Wilson	180 00	
Thomas Haddin	11 25	
Isabella Carl	6 28	
James McKeough	55 00	
Thomas Garvin	60 85	
Daniel O'Hara	5 00	
Ann McDonnell	7 00	
Patrick Connell	14 00	
Children of Richard Williams	4 00	
Ellen Sharp	15 00	
	<hr/>	\$2,041 23
		<hr/>

Table No. 3.

RENTS.

Mrs. Thomas Quinn	\$48 00	
Martin Grady	66 00	
Mary E. Nowlan	60 00	
Mrs. P. Flaherty	36 00	
Ellen Sullivan	48 00	
Mrs. M. Goodwin	66 00	
Susan Donnelly	53 00	
Patrick Gallagher	60 00	
Hannah Durgin	40 70	
Ann Nolan	36 00	
Mrs. J. Purcell	60 00	
E. H. Elliott	35 50	
T. McDermott	62 95	
Mrs. P. Mahoney	2 00	
Mrs. M. Porter	24 00	
Dennis Tinnan	48 00	
Thomas Moran	60 00	
Ellen Downey	65 00	
Mrs. John Hays	7 00	
Mrs. Ellen Driscoll	7 00	
Margaret Fogerty	12 00	
Rose Connors	18 80	
Kate Leonard	10 00	
Mr. J. Fenton	20 00	
Ellen Grady	48 00	
Tom Mahoney	48 00	
	<hr/>	\$1,041 95
		<hr/>

Table No. 4.

PUBLIC INSTITUTIONS.

PERSONS SUPPORTED IN VARIOUS INSANE ASYLUMS.

Name.	Name of Place.	Cost of Support.
Hannah B. Mayo,	Worcester	\$232 66
Artenatus Moore,	"	190 91
Harriet A. Locke,	"	170 27
John McIntosh,	"	5 99
Simon Hallett,	"	176 42
Bridget Bradburn,	"	170 60
Chas. F. Williams,	"	96 42
Mary Lahey,	Northampton	178 62
Patrick Donnelly,	Worcester	176 25
Susan E. McLaughlin,	"	181 97
Mary Murphy,	Danvers	178 97
Mary A. Foster,	Taunton	188 44
John W. Knowles,	Danvers	170 58
Ellen Cronin,	"	170 43
Robert C. Havey,	"	178 23
Mary J. McGillicuddy,	"	169 55
Ellen Cremins,	"	171 76
Bridget Lyons,	"	175 18
Ellen Garvin,	"	184 83
Lydia C. Webster,	"	169 45
Mary J. Whittimore,	"	50 82
Edwin R. Prescott,	"	176 11
Catherine McGurk,	"	14 39
Lucinda Dacy,	"	114 36
Anna L. Conlan.	"	103 89
		<hr/>
		\$3,797 10

PERSONS SUPPORTED IN STATE WORKHOUSE.

Michael Doyle	\$54 25	
John Scanlan	46 00	
Honora Sullivan	1 00	
Patrick Mahoney	33 50	
	<hr/>	134 75
<i>Amount carried forward</i>		<hr/> \$3,931 85

REPORT OF THE OVERSEERS OF THE POOR. 181

Amount brought forward \$3,931 85

PERSONS SUPPORTED IN STATE REFORM SCHOOL.

Patrick Durant	\$43 85	
Edward Brennan	29 00	
	<hr/>	72 85

PERSONS SUPPORTED IN TAUNTON ALMSHOUSE.

William Martin	\$ 6 00	
Charles F. Martin	52 17	
	<hr/>	58 17

PERSONS SUPPORTED IN HOUSE OF CORRECTION.

Chas. Connors	}	41 14
Mary McCue			
John Rogers			
Margaret McCarr			

PERSONS SUPPORTED IN CITY OF BOSTON ALMSHOUSE.

Catherine McGurk	40 73
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PERSONS SUPPORTED IN TRUANT SCHOOL, LOWELL.

Andrew Collins	\$67 71	
Frank Strong	67 71	
Henry Daniels	14 26	
Hugh McFarlan	67 71	
	<hr/>	217 39

PERSONS SUPPORTED IN MASSACHUSETTS GENERAL HOSPITAL.

Mary McLaughlin	\$71 00	
Thomas Porter	6 00	
	<hr/>	\$77 00
Total		<hr/> <hr/> \$4,439 13

Table No. 5.

BURIALS BY OVERSEERS OF THE POOR, AND TO WHOM CHARGEABLE.

Names.	Amounts.	To whom chargeable.
Cornelia Babcock	\$8 00	Salem
M. M. Green	20 00	State
Carrie Carnette	12 00	"
Charles Robert	12 00	"
Thomas Porter	10 00	"
Mary Porter	10 00	"
Charles Porter	14 00	"
John Ferris	20 00	"
Samuel Vinton	10 00	"
David McBride	5 00	"
B. Pazen	25 00	"
Rose Pazen	16 00	"
Douglas McFee	23 00	"
William Thomas	12 00	"
John Sullivan	10 00	"
L. Howe	5 00	"
John Murphy	20 00	Somerville
Willie Laird	10 00	"
John Rogers	20 00	"
Charles Laird	15 00	"
Thomas Garvin	10 00	"
Dennis McCue	11 00	"
Maria A. Mahoney	5 00	"
Julia Mahoney	20 00	"
Patrick Donnelly	17 00	"
	<u>\$340 00</u>	

SUMMARY.

State	204 00
City	128 00
Salem	8 00
	<u>340 00</u>

Table No. 6.

SHOWING AMOUNTS OF ORDERS DELIVERED FROM OFFICE OF THE OVERSEERS OF POOR TO PERSONS HAVING A SETTLEMENT IN SOMERVILLE AND OTHER TOWNS AND CITIES, AND UNSETTLED CASES.

1883.	ORDERS FOR CITY POOR.						POOR OF OTHER TOWNS AND CITIES.						ORDERS FOR UNSETTLED POOR.						TOTAL ORDERS GIVEN.			
	Orders.	Groceries.	Fuel.	Orders.	Dry Goods, Clothing, etc.	Orders.	Orders.	Groceries.	Fuel.	Orders.	Orders.	Dry Goods, Clothing, etc.	Orders.	Groceries.	Fuel.	Clothing.	Total.					
Jan.	9 53	\$ 89 30	\$ 56 35	12	\$16 75	14	\$23 55	10	\$21 55	4	\$7 25	3	\$ 3 75	8	\$19 60	1	\$ 50	128	\$116 60	\$ 97 50	\$24 50	\$238 60
"	23 60	98 25	49 121 65	8	11 75	15	24 75	7	15 70	3	6 00	9	16 00	12	30 55	5	10 75	168	139 00	167 90	28 50	335 40
Feb.	6 72	117 10	22 55 50	7	10 70	11	24 25	9	20 10	3	4 25	12	24 70	10	24 50	4	9 90	150	166 05	100 10	24 85	291 00
"	20 57	102 00	45 105 85	10	11 85	7	12 75	3	7 35	1	50 5	5	11 30	4	9 80	1	1 25	133	126 05	123 00	13 60	262 65
March	6 72	125 40	47 112 66	9	13 00	15	28 20	10	22 78	5	8 10	11	20 50	9	20 83	..	..	178	174 10	156 27	21 10	351 47
"	20 62	108 25	38 91 00	7	10 25	16	31 00	7	19 50	1	3 00	11	21 80	5	17 15	..	..	147	161 05	127 65	13 25	301 95
April	3 50	94 25	33 77 37	12	17 75	18	35 30	6	14 50	2	3 00	3	11 70	21	3 68	..	..	135	141 25	95 55	20 75	257 55
"	17 49	80 76	18 38 45	1	1 50	10	17 75	4	10 28	..	..	4	8 00	..	..	..	..	86	106 51	48 73	1 50	156 74
May	1 46	118 95	13 31 06	5	16 50	12	27 25	1	2 45	..	..	4	7 50	21	3 70	..	..	83	153 70	37 21	16 50	207 41
"	21 30	91 00	12 14 84	8	13 00	3	8 50	2	1 55	..	..	1	2 00	..	..	..	..	56	101 50	16 39	13 00	130 89
June	26 40	108 35	13 17 42	5	7 75	6	19 50	1	1 80	..	..	..	..	..	..	..	..	65	127 85	18 22	7 75	153 82
July	24 35	87 75	12 12 55	4	11 75	5	11 25	2	1 50	..	..	2	8 00	1	2 45	..	..	61	107 00	16 50	11 75	135 25
Aug.	28 38	97 50	12 12 90	8	13 90	8	22 50	3	2 40	..	..	5	12 50	..	..	1	1 50	75	132 50	15 30	15 40	163 20
Sept.	25 38	101 79	21 41 55	10	23 00	5	15 00	4	6 40	..	..	1	1 00	..	..	..	..	79	117 79	47 95	23 00	188 74
Oct.	23 42	87 00	30 77 65	4	6 75	8	24 25	7	13 85	..	..	1	3 00	..	..	..	..	92	114 25	91 50	6 75	212 50
"	20 38	106 50	43 109 15	11	24 30	6	16 80	5	12 25	..	..	5	16 00	3	7 35	..	..	111	139 30	128 75	24 30	292 35
Nov.	20 38	106 50	43 109 15	11	24 30	6	16 80	5	12 25	..	..	5	16 00	3	7 35	..	..	111	139 30	128 75	24 30	292 35
Dec.	18 62	156 19	45 112 60	6	11 75	12	33 80	10	26 33	2	2 00	19	47 45	9	20 83	..	..	165	237 44	159 76	13 75	410 95
	853	\$1,770 34	476 \$1,088 55	127	\$222 25	171	\$376 40	91	\$199 29	21	\$34 10	96	\$215 20	65	\$160 44	12	\$23 90	1912	\$2361 91	\$1,448 28	280 25	\$4,090 47

Table No. 7.

RECEIPTS AND DISBURSEMENTS FOR THE YEAR ENDING
DECEMBER 31, 1883.

Rec'd City Appropriation	\$14,000 00	Paid for Board in Private	
" Town of Salem . .	10 50	" Families	\$2,051 21
" City of Boston . .	666 37	" " House Rents	1,059 46
" " " Chelsea . .	48 20	" " Groceries and Pro-	
" " " Lawrence . .	23 95	visions	2,351 26
" " " Malden . .	36 50	" " Salaries of Overseers	1,400 00
" " " Newton . .	12 85	" " Dry Goods, Shoes,	
" Town of Woburn . .	28 80	and Clothing	364 41
" " " Natick . .	75 80	" " Fuel	1,295 98
" City of Cambridge .	13 43	" " Sundries	252 65
" State of Mass. . . .	595 33	" " Other Towns and	
" Town of Gardner . .	62 25	Cities	2,405 70
" " " Wakefield.	6 00	" " Public Institutions,	
" " " Arlington.	111 35	Care of Insane, Idi-	
" " " Manchester	27 95	otic, etc.	4,439 13
" " " Sandwich.	26 55	" " Burials	340 00
" Highway Com. Labor	81 00		
" Rents refunded . .	29 50		
Excess of Expenditure	103 47		
	<hr/>		<hr/>
	\$15,959 80		\$15,959 80

THOMAS CUNNINGHAM,

Secretary.

REPORT
OF THE
BOARD OF HEALTH.

CITY OF SOMERVILLE.

IN BOARD OF MAYOR AND ALDERMEN, Jan. 30, 1884.

Referred to the Committee on Printing, to be printed with the annual reports for 1883. Sent down for concurrence.

CHARLES E. GILMAN, *Clerk.*

IN COMMON COUNCIL, Jan. 30, 1884.

Concurred in.

DOUGLAS FRAZAR, *Clerk.*

CITY OF SOMERVILLE.

OFFICE OF THE BOARD OF HEALTH,

CITY HALL, January 30, 1884.

To his Honor the Mayor and the City Council:

GENTLEMEN:—The following is our report for the year ending December 31, 1883, and is the sixth annual report of this board.

MEMBERSHIP.

The membership of the board was not changed during the year. Jan. 9, Mr. Kimball was re-appointed for a term of two years.

ORGANIZATION.

March 1, the following officers were re-elected:

GEORGE A. KIMBALL	.	.	<i>Chairman.</i>
GEORGE I. VINCENT	.	.	<i>Clerk.</i>
WM. H. BRINE (40 Houghton St.,)			<i>Inspector.</i>

NUISANCES.

The following table states the nuisances abated, and the months when they were complained of:

NUISANCES ABATED IN THE YEAR 1883.

	*January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Ashes in cellar.....	2	...	1	...	...	...	1	...	...	...	...	...	4
Cellar damp.....	3	5	6	9	4	...	3	1	...	2	...	...	33
Cesspool defective.....	...	...	...	...	...	2	...	...	1	...	1	...	4
" offensive.....	...	...	...	...	2	3	2	2	...	...	1	...	10
" overflowing.....	...	...	...	1	1	...	...	...	...	...	...	...	2
" under house.....	1	...	...	...	...	...	...	1	...	...	...	...	2
Connections of drainage-pipes defective.....	11	2	15	11	8	3	8	4	2	6	2	...	72
Drainage defective.....	21	4	7	5	6	7	10	2	5	1	2	...	70
" emptying into cellar..	4	1	5	3	4	1	6	1	5	1	...	...	31
Drainage emptying on surface.	6	2	5	2	6	3	4	3	...	5	1	...	37
Drain-pipe clogged.....	1	1	...	...	1	...	...	...	2	1	...	...	6
" defective.....	7	3	6	6	3	2	2	1	1	3	...	...	34
Hens kept in cellar.....	1	1	1	...	2	...	...	1	...	1	...	...	7
Manure exposed and offensive	5	...	5	2	2	...	1	2	...	2	2	...	21
No house-drainage facilities...	...	...	...	...	...	...	...	...	...	1	1	1	3
Offal in cellar.....	1	...	...	...	...	...	...	...	...	...	...	...	1
" on land.....	1	2	5	2	3	...	5	5	1	5	1	7	37
Offensive odor in and about dwellings.....	1	3	1	...	...	...	4	2	1	1	2	...	15
Opening in drain-pipe in cellar	1	...	...	3	3	...	...	...	...	1	...	...	8
Premises filthy.....	3	...	...	1	4	1	2	1	...	3	2	...	17
Privy filthy.....	...	...	...	1	2	...	1	...	...	...	...	...	4
Privy-vault full.....	16	4	15	14	10	4	9	7	2	15	1	2	99
" leaking.....	...	...	...	...	1	...	...	...	...	...	...	...	1
" not properly constructed.....	1	...	...	1	1	...	...	...	...	1	...	...	4
" offensive.....	3	8	7	19	24	16	25	22	7	8	...	1	140
Slaughter-house offensive.....	...	...	...	...	...	1	...	...	...	...	...	...	1
Slops thrown on surface.....	1	...	4	...	3	...	...	2	2	4	1	2	19
Soil-pipe clogged.....	...	...	1	...	...	...	...	...	...	...	...	...	1
" not ventilated.....	4	1	1	...	1	...	...	...	...	...	2	...	9
Stable and stable-premises filthy and offensive.....	2	...	2	...	1	...	...	2	...	1	...	...	8
Stagnant water in house-cellar	2	3	8	6	1	2	1	1	...	1	1	...	26
Stagnant water on surface.....	...	...	...	9	4	1	...	...	...	...	...	...	14
Waste-pipe clogged.....	1	1	...	...	...	...	...	...	...	...	...	...	2
" defective.....	...	...	...	...	1	...	...	...	...	2	...	...	3
" leaking.....	...	...	...	1	...	...	...	...	...	...	...	...	1
" not trapped.....	40	11	21	28	22	7	14	16	5	16	5	1	186
Water-closet defective.....	4	1	1	...	...	1	4	1	1	...	...	...	13
" insufficiently supplied with water.....	2	2	4	2	2	1	...	...	...	1	...	...	14
Water-closet not supplied with water.....	...	1	...	...	...	...	...	...	...	...	1	...	2
Water-closet offensive.....	5	1	3	5	2	...	1	1	2	...	4	...	24
" not trapped.....	...	...	1	...	...	...	...	...	...	...	1	...	2
Well-water unfit for use.....	...	...	...	1	...	...	...	...	...	...	...	...	1
Wooden waste-pipes and drains	6	2	...	...	2	1	5	...	...	...	...	...	16
	156	59	125	132	126	56	108	78	37	82	31	14	1004

*Including nuisances referred to us by the Board of 1882.

Number of nuisances abated, as per preceding table, 1,004; number of nuisances referred to the Board for the year 1884, 171; total, 1,175.

Number of complaints, 564, only 1 of which appeared to have been made without a sufficient cause.

Number of houses ordered vacated, 54; number of these houses since put in habitable condition, 44; number vacated, 3 in compliance with our orders, and 3 by order of the Chief of Police under our direction.

Number of notices sent by mail, 660; number served by constables, 90; and in addition to these we have written 94 letters.

STABLES.—The usual number of complaints have been received of offensive stables, and they relate, in most cases, to stables which are unfit for use on account of their faulty construction, or, more properly speaking, lack of construction. We have not, as yet, resorted to extreme measures, but as the density of our population increases we shall be compelled to deal with these nuisances more rigidly than we have in the past.

Although it may be claimed that stables are not injurious to health, yet if they are “offensive to the senses, and render habitation uncomfortable,” they are nuisances, in the meaning of the law.

We renew the recommendation made in the first annual report of this board, that the Board of Aldermen do not grant permission to erect a stable unless it is to be placed at such a distance from dwellings as not to cause annoyance, and is to be well drained and ventilated, and provided with a suitable manure-pit; also, that on every petition for permission to erect a stable, a hearing be given to all persons dwelling in the immediate neighborhood.

PERMITS.

Permits were granted to keep swine and goats, and to collect grease, as follows:—

SWINE.—Applications were received for permits to keep 241 swine; permits were granted for 236, and refused for 5.

GOATS.—Permits were applied for, and granted, to keep 16 goats.

GREASE.—Twenty-one permits to collect grease were applied for, and 20 were granted, of which 14 were issued to residents of

Somerville, 3 to residents of Cambridge, 2 to parties doing business in Boston, and 1 to a firm in Medford; all of the non-residents having been recommended by the Boards of Health of their respective places of residence.

Recommendations to neighboring Boards of Health for Somerville parties to receive licenses to collect grease in their cities, were given as follows:—

To collect in Boston, 5.

To collect in Cambridge, 9.

During the year, the Board of Health of Cambridge granted licenses to 12 Somerville parties to collect grease in that city, and similar licenses were granted to 50 of our citizens by the Board of Health of Boston.

ASHES.

The Highway Department has continued to collect ashes and house-dirt, under our direction, but during the past year the collections were made weekly instead of monthly. This change, which was regarded as an experiment, has proved satisfactory in all respects except the cost, and this has been much greater than we anticipated, it having increased from \$1,429.56 in 1882 to \$2,416.94 in 1883. The number of loads collected last year, as reported by the Superintendent of Streets, was 7,539.

The collections are made in Ward One on Wednesdays, in Ward Two on Thursdays, in Ward Three on Fridays, and in Ward Four on Saturdays.

HOUSE OFFAL.

Mr. Christopher Burke's contract for the collection of house offal expired June 26th, when, as he was the lowest bidder, a new contract was made with him for three years. The new contract is precisely like the old one except in the item of compensation, which, in the latter, was five hundred dollars per annum and the materials collected, and in the present contract is "the materials collected" only. He is required to make three collections per week in the months of May, June, July, August and September; two per week in the months of April, October and November, and one each week in the months of December, January, February and March.

The contractor reports that he collected about 220 cords of offal during the year.

NIGHT SOIL.

The contract with Messrs. Russell and Fitch for the removal of night soil, which expired April 24th, was extended for one year.

They are entitled to charge, under said contract, for every load or part of a load removed in the months of April, May, June, July, August, September, October and November, \$3.50; and for the same in the months of December, January, February and March, \$2.50; a load consisting of eighty cubic feet. The contractors report that 504 loads were removed during the year.

Order-books are kept, as heretofore, at the Police Station on Bow Street and in the grocery store at the corner of Franklin and Perkins Streets.

SEWERS.

It is very necessary that sewerage be provided for the houses on Wyatt, Fairlee, Murdock and Clyde Streets, Brastow, Jenny Lind and Partridge Avenues and Tower Court, as their sewage is now being discharged upon the highways or into cesspools, and causes very serious nuisances.

The several sewer-outlets are in the same condition as stated in our last annual report.

SCHOOL BUILDINGS.

In March last, by request of the School Committee, we made a careful examination of all the school-buildings in the city, and reported in detail the defects found in each building. Some of these defects have received attention; but in our opinion very serious defects still remain, which it will cost a large sum of money to remedy. As our report to the School Committee is not in print, we repeat the portion relating to the general condition of the buildings.

“VENTILATION.—We are convinced, from our examination of the school buildings in Somerville, that they are generally defective in the system of ventilation, which in most cases is entirely inadequate. We also find that the teachers and janitors are generally ignorant and careless in regard to the necessity for pure air. For

instance, in the Bell School, in each of the twelve rooms we found every ventilator closed, and there were only one or two teachers in the building who said that they had at any time made use of them, but on examination we found them all in working order.

Every teacher should be instructed to make use of such means of ventilation as are provided, even though they may not be adequate.

The method of ventilating by open windows we consider very dangerous. In many of the buildings, however, it is necessary to make use of the windows for ventilation; but when this is done during the school session, the greatest caution should be observed. Free use may be made of them during exercises and at recess, and we found this to be the custom in some of the schools. In several instances we occupied a scholar's seat near an open window and could plainly feel the draught. Some of the teachers informed us that they always close the windows when scholars complain of the cold air; but it seems to us unreasonable to expect a child, under such circumstances, to be cautious enough to protect its health, when even grown people, who are at perfect liberty to consult their own comfort and convenience, suffer so often from colds contracted by heedlessly and unnecessarily exposing themselves to draughts.

The first duty of a teacher should be to promote healthfulness in her pupils, and the securing of large percentages and frequent promotions should be made matters of secondary consideration. We would suggest to your board that you consider the advisability of appointing some one to give to teachers and janitors the necessary instructions in relation to heating, ventilating, and other sanitary matters.

Many of the water-closets and privies were found offensive on account of insufficient ventilation, or faulty construction. We believe water-closets can be built in the basement of a school-building, which, if kept in good repair, with proper arrangements, and great care on the part of the janitors, will not cause any trouble; but as experience has shown that we cannot depend on having these necessary conditions, we believe it is better to place the closets outside of the building, provided the school-yard is not too small, and they can be located so as not to become offensive to neighbors or the public.

We believe the practice of allowing janitors with their families

to occupy apartments in the school-building is injudicious. The odor of the cooking is often diffused throughout the building, and is a subject of complaint at several of the large school-houses. A contagion is liable to break out in the janitor's family, which may render it necessary to close the school, as has been the case recently at the Webster School, which has remained closed for several weeks on account of a death from scarlet fever in the family of the janitor. If janitors are to live in the school-houses, only those with small families should be engaged.

Many of the school-rooms are crowded.

We have reported as defective any school-room that has a less capacity than 200 cubic feet of air-space to each seat.

The authorities on this matter are quoted as follows:—

A. C. Martin in Massachusetts State Board of Health, 1871, — 220 cubic feet.

Prof. Kedzie in Buck's Hygiene,— 300 cubic feet.

W. A. Briggs in New Hampshire State Board of Health Report, 1882, — 347 cubic feet.

In building a new school-house we should recommend an allowance of at least 250 cubic feet to each seat.

The janitors in many of the school-houses fail to keep the buildings and water-closets in proper condition. We believe that to a considerable extent, the foul odors that have caused so much complaint in the past, have been due to their carelessness and neglect."

DEATHS.

544 certificates of death were approved during the year, and 27 certificates of still-births.

MORTALITY IN SOMERVILLE IN 1883.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Zymotic Diseases.													
Scarlet Fever.....	2	...	1	1	...	1	...	...	1	...	...	...	6
Diphtheria.....	2	3	3	6	1	3	3	1	1	2	1	5	31
Croup.....	...	1	...	...	...	...	...	...	1	...	2	...	4
Typhoid Fever.....	2	1	...	...	1	1	1	1	2	3	...	1	13
Erysipelas.....	3	...	1	...	1	...	...	1	...	...	...	...	6
Dysentery.....	...	...	...	...	...	1	1	1	2	...	...	...	5
Diarrhœa.....	...	...	...	1	...	2	2	1	1	3	1	...	11
Cholera Infantum...	...	...	...	...	...	2	13	8	4	...	...	...	27
Cholera Morbus .....	...	...	...	...	...	...	1	...	1	...	...	...	2
Cerebro-Spinal Meningitis.....	...	...	...	1	...	...	...	...	...	...	...	...	1
Septicæmia.....	...	...	...	...	...	...	...	1	...	...	...	...	1
Rheumatism.....	...	...	2	1	...	...	...	...	...	...	...	...	3
Whooping Cough .....	...	1	...	...	...	...	...	...	...	1	1	1	4
Pyæmia.....	...	...	...	...	...	...	...	1	...	...	1	...	2
Puerperal Fever	1	1	...	...	...	...	...	...	1	...	...	...	3
Measles.....	...	...	...	1	...	1	3	...	...	...	...	...	5
Constitutional Diseases.													
DIATHETIC.													
Cancer.....	...	...	1	1	...	1	...	2	1	...	...	1	7
Cancer of Breast...	...	...	...	2	1	...	...	...	...	...	...	...	3
Cancer of Liver.....	...	...	1	...	...	1	...	1	...	...	...	...	3
Anæmia.....	1	1	...	1	...	...	...	...	...	...	...	...	3
Cancer of Uterus...	...	...	...	...	1	...	1	...	...	...	...	...	2
Cancer of Omentum...	...	...	...	...	...	1	...	...	...	...	...	1	2
Cancer of Stomach...	...	...	...	...	...	...	1	...	1	...	1	...	3
Cancer of Lip.....	...	...	...	...	...	...	1	...	...	...	...	...	1
TUBERCULAR.													
Phthisis Pulmonalis	4	8	7	4	8	11	8	9	2	9	5	6	81
Tubercular Meningitis .....	...	...	...	1	2	...	...	...	2	...	...	1	6
Marasmus.....	...	...	2	...	2	3	2	...	3	...	1	...	13
Scrofula.....	...	...	...	1	...	2	...	...	...	...	...	...	3
Tuberculosis.....	...	...	...	1	...	1	...	...	...	...	...	...	2
Local Diseases.													
NERVOUS SYSTEM.													
Apoplexy.....	2	...	2	2	1	1	1	...	1	...	...	...	10
Paralysis.....	1	...	1	...	1	1	2	...	1	...	1	5	13
Insanity.....	...	...	...	1	...	1	1	1	...	3	...	1	8
Brain Disease.....	...	...	2	3	4	1	2	1	...	...	1	...	14
Cerebral Meningitis	...	...	...	1	...	...	...	...	...	...	...	...	1
Meningitis.....	1	...	2	2	...	...	...	4	...	...	...	1	10
Convulsions.....	2	2	...	3	...	...	2	1	1	2	...	2	15
Epilepsy.....	1	...	...	...	...	...	...	...	...	...	...	1	2
Congestion.....	...	...	...	...	...	...	...	1	...	...	...	...	1
Myelitis.....	...	...	...	...	...	...	...	...	...	1	...	...	1

MORTALITY IN SOMERVILLE IN 1883.—Continued.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
ORGANS OF CIRCULATION.													
Heart Disease.....	5	3	3	1	3	1	3	1	2	2	1	....	25
Pericarditis .....	....	....	1	....	....	....	....	....	....	....	....	....	1
Endocarditis.....	....	....	....	....	1	1	....	....	....	....	....	....	2
RESPIRATORY ORGANS.													
Pneumonia	3	3	4	8	6	2	....	....	2	1	6	7	42
Bronchitis .....	....	2	3	1	1	2	5	....	1	....	....	3	18
Hemorrhage .....	....	....	....	....	....	1	....	....	....	....	....	....	1
Lung Diseases .....	....	....	....	1	....	....	....	....	....	....	1	....	2
Pleuro-Pneumonia..	....	....	2	....	....	....	....	....	....	....	....	1	3
Asthma .....	....	....	1	....	....	....	....	....	....	1	....	....	2
Empyæma .....	....	....	....	....	....	....	....	....	....	1	....	....	1
DIGESTIVE ORGANS.													
Gastritis .....	....	....	....	....	....	....	1	2	....	1	....	1	5
Enteritis .....	....	1	....	....	....	2	....	....	....	1	....	1	5
Peritonitis	2	....	1	3	....	....	....	2	2	2	....	1	13
Liver Disease.....	1	....	....	....	....	2	....	....	....	....	1	....	4
Inanition.....	....	1	....	....	....	....	....	....	....	....	....	....	1
Jaundice.....	1	....	1	....	....	....	....	....	....	....	....	....	2
URINARY ORGANS.													
Nephritis.....	....	....	....	....	....	....	....	....	1	....	....	1	2
Bright's Disease....	2	1	4	3	4	....	1	1	1	....	1	....	18
Diabetes .....	....	....	....	1	....	....	....	....	....	....	1	1	3
Disease of Kidneys..	....	....	....	1	....	....	....	....	....	....	....	....	1
Cystitis .....	....	....	....	....	....	....	....	1	....	....	....	....	1
Developmental Diseases.													
OF CHILDREN.													
Premature Birth and Infantile Debility....	....	2	....	2	5	....	2	2	....	2	2	2	19
Hydrocephalus.....	1	....	....	1	....	....	1	....	1	....	....	....	4
Cyanosis.....	....	....	....	....	....	....	....	1	....	....	....	....	1
OF OLD PEOPLE.													
Old Age.....	2	1	....	1	1	1	....	5	1	4	1	2	19
Diseases of Nutrition.													
General Debility....	....	2	....	....	1	....	3	1	....	1	....	1	9
Violent Deaths.													
Fracture of Skull...	....	1	....	....	....	....	....	....	1	....	....	....	2
Railroad .....	....	....	....	....	....	....	....	1	1	....	....	....	2
Fracture of Spine...	....	....	1	....	....	....	....	....	....	....	....	....	1
Mastoid Abscess....	....	....	....	1	....	....	....	....	....	....	....	....	1
Abscess.....	....	1	....	....	....	....	....	1	....	....	....	....	2
SUICIDE.....	....	....	....	....	....	1	....	....	....	....	....	....	1
UNKNOWN	1	1	....	....	....	....	....	1	....	....	....	....	3
Total.....	40	37	46	58	45	48	61	54	39	40	29	47	544
Still-born	2	2	4	2	1	2	2	3	2	3	1	2	26

Population.....28,663

Death-rate per thousand.....18.98

DISEASES DANGEROUS TO PUBLIC HEALTH.

SCARLET FEVER.—There were 84 cases of this disease reported to our Board during the past year, 6 of which proved fatal.

While this is a considerable increase over last year and the year before (1881, 25 cases and 1 death; 1882, 39 cases and 4 deaths), nothing like an epidemic has prevailed, the cases being for the most part scattered, and having little connection with one another. We, as a Board of Health, are very much pleased to notice the growing feeling not only of dread, but also of caution, among our people in regard to these contagious diseases; for this we believe is the surest safeguard against any extensive spread of them. We still continue our custom of placing cards with "Scarlet Fever Here," upon the houses in all cases, and are perfectly satisfied with the practical working of this rule.

DIPHTHERIA.—We are happy to note a diminution in the number of cases of this disease in our city during the past year. In 1880 there were 108 cases and 19 deaths; in 1881, 155 cases and 45 deaths; in 1882, 172 cases and 52 deaths; while in 1883, with an increase of population, there were only 156 cases, 31 of which proved fatal.

This diminution in the number of cases we believe to be due, at least in part, to the strenuous efforts of our Board in keeping children away from the schools. In this work we have had the hearty coöperation of the school teachers, and for this we are grateful to them. We have also had valuable assistance from the undertakers in preventing public funerals, and in burying the bodies of those dying from this disease as soon as possible.

Cards on the houses are also used in this disease.

TYPHOID OR TYPHUS FEVER (?).—At the very commencement of the year, in fact in December 1882, a child by the name of Porter, aged 12 years, was taken sick with all of the symptoms of typhoid fever; there was headache, pain in the back, etc., nose-bleed, typhoidal temperature, rose-spots and diarrhœa. She died in the third week, of exhaustion. This certainly was a well-marked case of typhoid fever.

January 17, 1883, the father, Thos. Porter, aged 45, was taken suddenly sick with scarcely any prodromal symptoms. He was sent immediately to the hospital, where he died in a few days. (History of this case is not known, with the exception that from

the peculiar character of the rash, some question was raised as to whether this was not a case of typhus; that was finally settled in the negative.)

At about the same time, January 23d, 1883, Frank Porter, 7½ years, and Thos. Porter, Jr., 9 years, were taken sick; the former was sick four weeks and had diarrhœa and was covered with a thick, dark brown rash all over the body, which did not disappear on pressure; typhoid temperature; recovered: the latter had the same symptoms, but with no diarrhœa.

January 23d, 1883, James L., 23 years, living near the Porter family, was sick in the same way with slight delirium, constipation, and this same rash; sick four weeks and recovered.

January 24, 1883, Mary N., 11 years, living in the same yard with the Porter family and using the same vault; symptoms strictly typhoidal; recovered.

Next in order came the City Physician, who was attending these cases. In this case distinct prodromes for ten days, no nosebleed, profuse diarrhœa caused by calomel, afterwards constipation throughout, this same dark rash all over the body, even in the palms of the hands and soles of the feet, active delirium early and continuing throughout the disease; sick eight weeks; recovered; temperature strictly typhoidal.

Next in order came Mrs. H., who nursed the Porter children. In this case there was profuse rash and constipation; recovered.

Next, Mrs. M., mother of Mary, profuse rose-rash, constipation; recovery.

Mollie M., 10 years old, daughter of Mrs. M. who assisted in the care of the Porter children, rash on face, hands and bowels; temperature at one time, 105°; recovered.

At about this time Dr. ———, who took the practice of the City Physician, became sick. In his case the temperature rose very high, and early in the disease made a sudden fall, after which the delirium and stupor continued for many days. This same dark rash was everywhere present. There was constipation, and finally, after a very severe illness, recovery.

Mrs. M., mother of Mary M., sick directly after with same symptoms. These two M—— cases seemed to transport the disease to Harris street, for shortly after, Mrs. John O'Brien, living near the M—— family, and having direct connection with them, was taken sick in the same manner as the rest and was taken to

the Massachusetts General Hospital, where she was treated for typhoid fever, and recovered.

Within a few days of this, the husband, John O'Brien, and a son, John O'Brien, Jr., became ill, and were taken to the City Hospital, Boston, whence, after a short stay, they were transported to the quarantine hospital, the cases being regarded as typhus fever. Both died.

In a short time Willie O'Brien, a younger son of John, was taken sick at his brother's house, where he and the sister had gone after the father's removal. In view of the possibility of this being another case of typhus, all practical precautions were taken to prevent the further spread of the disease. This boy had a typical typhoid fever, with hemorrhage from the bowels even, and after an illness of three weeks, recovered.

At this time the brother's wife, who had gone to her mother's, in Cambridge, became ill, and her case was thought by the authorities there to be typhus. This finally ended the epidemic.

There were four other cases having an apparent connection with these cases, the histories of which are not known. The exact dates of the commencement of the cases is unknown, as there is always some delay in the reporting of these cases.

In considering these cases, it is necessary to state that the region where they occurred is, perhaps, the most unhealthy in the city; the land is low and the houses in a wretched sanitary condition, vaults being used in most of the cases.

In the cases of the two physicians there was every reason for their having typhoid fever independently of these cases, for they were both completely broken down from exposure and overwork. In these two cases, where the ordinary precautions for preventing the spread of typhoid fever were taken, no other cases occurred, although no attempt were made at isolation.

It is extremely difficult, with no post-mortem examination to assist us, to determine just what the true nature of the cases was; but in our judgment all of the cases, certainly those seen by us, were *typhoid fever*.

The other cases that occurred during the year were scattered, and the usual sanitary defects were found to exist.

We present herewith a table, prepared by the Inspector, showing the sanitary condition of the several dwellings where diphtheria was reported.

We also submit two tables, the first of which shows the number of cases of scarlet fever, diphtheria, and typhoid fever reported in 1883, with the number and percentage of deaths from each, and the second shows the number of deaths in Somerville from scarlet fever, diphtheria, and typhoid fever in the several districts for each of the past six years.

The number of cases marked "fatal" in the Inspector's Diphtheria table is one less than the number of deaths from diphtheria during the year, because one of the deaths was that of a case which was reported in 1882 and which does not therefore appear in the Inspector's table.

DIPHTHERIA IN 1883.—INSPECTOR'S REPORT.

201 A.

No. of Family.	Nationality.	Occupation of Head of Family.	No. of Patient.	Sex of Patient.	Age of Patient.	Date of Sickness.	Result.	District.	Soil.	Locality.	House Drainage.	Condition of Cellar.	Privy.	Remarks.
1	American	Carpenter	1	Male	14	January		6	Clayey Gravel	Good	Into cesspool 12 feet from house.	Good	Near house.	Wooden box for waste pipe.
2	"	Merchant	2	"	14	"		5	"	"	Defective ventilation; defect in D. P. in cellar	"	Water-closet in bath-room.	
3	"	Painter	3	Female	4	"		5	"	Fair	Defect in D. P. in cellar	Damp	Water-closet in cellar; offensive	
			4	Male	3	"								
			5	Female	33	"								
4	Irish	Laborer	6	"	4	"	Fatal	1	Clay	Low	Drain pipes defective; cesspool in cellar.	Damp and off' ve.	12 feet from house.	
5	"	"	7	Male	12	"		4	Gravel	Fair	Waste pipes not trapped	"	Privy near house; offensive.	[sick with Diphtheria.
6	American	Clerk	8	Female	8	"		2	"	"		"	Water-closet in cellar	Visited house in Boston where child was
			9	Male	5	"								
			10	"	2	February	Fatal							
			11	"	6	"								
7	"	Barber	12	"	2½	January		10	Clayey Gravel	Fair	" " D. P. in cellar defective.	Good	Water-closet in cellar; defective.	
			13	Female	28	"								
8	Irish	Laborer	14	Male	8	"		3	Gravel	"	"	Damp		[where two fatal cases of diphtheria occurred
9	"	Carpenter	15	Female	13	"		8	"	"	"	"	Water-closet in cellar; offensive.	This child visited house in South Boston
10	American	Machinist	16	Male	2	"		5	"	Good	" " W. P. and D. P. defective	Good	Water-closet in cellar	
11	"	Engineer	17	Female	14	"		5	"	"	" " Defect in D. P. in cellar.	"		
			18	"	17	"								
12	"	Laborer	19	"	12	"	Fatal	3	Sand	"	"	"	" " "	
			20	"	22	"								
13	Scotch	"	21	Male	4	"		1	Clayey Gravel	Low	" " Cesspool in cellar.	Damp	15 feet from house; vault full	
14	American	Sea Captain	22	Female	15	"		4	Gravel	Good	Drainage not ventilated	Dry	Water-closet in cellar	[was taken sick.
15	"	Merchant	23	"	5	"		5	"	"	Satisfactory	"		Drain repaired three weeks before child
			24	"	8	February								
16	Irish	Cabinet Maker	25	"	11	January		5	Clayey Gravel	Fair	Waste and drain pipes defective	Damp	Near house; offensive	
17	American	"	26	Male	10	"		7	"	Low	Entire drainage defective; W. P. not trapped	Damp and off' ve.	25 feet from house; vault full	Wooden box drain in cellar.
18	"	Merchant	27	"	3	February	Fatal	7	Gravel	Good	Not ventilated.	Good	Water-closet in bath-room.	Offensive odor in bath-room.
19	"	Laborer	28	Female	11	"		5	"	Fair	Waste pipes not trapped; D. P. defective.	Damp	5 feet from house; offensive.	[child who died of Diphtheria.
20	"	Salesman	29	Male	6	"		7	"	Good	"	"	W. C. in cellar not supplied with water.	Father of this child attended funeral of
21	"	Clergyman	30	"	6	"		5	"	Fair	Defect in drain near water-closet	"	Water-closet in cellar	
22	"	Salesman	31	"	34	"		2	"	"	Waste pipe not trapped; sewage flowing into cellar	"	Privy 20 feet from house; vault full	
23	"	Widow	32	"	10	"		4	"	Good	"	Good	" 10 " "	
24	Italian	Pedler	33	"	4	"		1	Clayey Gravel	Fair	"	"	" 30 " "	
			34	Female	22	"								
25	American	Brush Maker	35	Male	1	"		3	Sand	Good	Water-closet in bath-room offensive	Basement rooms.		
26	English	Carpenter	36	Female	17	"		4	Gravel	Fair	Waste pipes not trapped	"	20 feet from house; offensive	Premises in rear of house filthy.
			37	"	43	"								
27	Irish	Painter	38	"	15	"		4	"	"	"	No cellar.	6 " " "	
28	American	Widow	39	"	13	"		3	Sand	Good	"	Damp	Water-closet in cellar	Stable near house offensive.
29	"	Produce	40	Male	32	March		7	Gravel	"	"	Good	Water-closet in cellar; offensive	
30	Irish	Laborer	41	Female	5	"		6	Clayey Gravel	Fair	"	"		
31	American	Clergyman	42	Male	3	"		2	Gravel	Good	"	"	Water-closet in cellar	
32	"	Merchant	43	Female	14	"		5	"	"	Drainage not ventilated.	"		
33	"	Widow	44	"	10	"		2	"	"	Waste pipes not trapped; D. and W. P. defective.	Damp	" " "	
34	"	Brass Finisher	45	"	5	"		5	"	"	Drainage not ventilated.	Good	Water-closet in pantry.	
35	Irish	Laborer	46	Male	26	"		1	"	Fair	Drain pipes defective.	Damp	Privy 6 feet from house; offensive	Hens kept in cellar.
36	American	Carpenter	47	"	7	"		9	"	Good	Drainage not ventilated; waste and drain pipes defective	"		
37	"	"	48	Female	12	"		5	"	Fair	Waste pipes not trapped	Good		
38	"	Com. Merchant	49	Male	4	"	Fatal	7	"	Good	" " Defect in drain pipe	"	Water-closet in cellar	
			50	Female	24	"								
			51	"	2	"	Fatal							
39	"	Carpenter	52	"	7	"		8	Clayey Gravel	Fair	" " Into cesspool 25 ft. from house	Damp	20 feet from house; vault full	

No. of Family.	Nationality.	Occupation of Head of Family.	No. of Patient.	Sex of Patient.	Age of Patient.	Date of Sickness.	Result.	District.	Soil.	Locality.	House Drainage.	Condition of Cellar.	Privy.	Remarks.
40	Irish	Laborer	53	Female	15	March		4	Sand	Fair	Sewage flowing into cellar	Damp	Near house; offensive	
41	American	Machinist	54	"	2	"		2	Gravel	Good	Defect in drain near water-closet	Good	Water-closet in cellar	
42	"	Fireman	55	Male	5	"		4	Sand	"	Waste pipe not trapped	"	15 feet from house	
43	"	Machinist	56	Female	6	"	Fatal	5	Gravel	"	Opening in D. P. in cellar	"	6 feet from house	Offensive odor in cellar.
44	"	Salesman	57	"	5½	April		6	"	"	Drainage not ventilated	"		
45	"	Milk business	58	"	30	"		3	"	Fair	Waste pipe not trapped	Damp	Water closet in cellar	
46	"	Laborer	59	Male	3	"	Fatal	3	"	"	"	"	"	
47	"	Printer	60	"	4	"		2	"	"	"	"	"	
48	"	Dry Goods	61	"	4½	"		2	"	Good	"	Good	Water-closet in cellar offensive	
49	"	Laborer	62	"	10	"		5	"	"	Sewage flowing into cellar	Damp	"	
			63	"	5	"	Fatal	5	"	"	Drain pipe in cellar defective	"	Privy adjoining house; offensive	
			64	Female	5	"								
			65	"	35	"								
			66	Male	32	"								
			67	Female	1	"								
			68	Male	3	"								
50	"	Salesman	69	Female	28	"		5	"	"	"	Good	Water-closet in cellar	
51	"	Tinsmith	70	"	38	"		8	Clayey Gravel	"	Waste pipe not properly trapped	"	"	Drainage not ventilated.
52	"	Teamster	71	"	13	"	Fatal	2	"	"	Drainage from sink into vault	Damp	Privy 3 feet from house; offensive	
			72	Male	4	"								
			73	Female	2	"								
52	"	Widow	74	"	6	"		9	Gravel	"	Defect in D. P. in cellar	Good	Water-closet in bath-room	Insufficient supply of water in W. C.
			75	"	2	"	Fatal							
53	Irish	Teamster	76	"	3½	May		1	"	Fair	Waste pipe not trapped	Damp	25 feet from house	
54	American	Bookkeeper	77	Male	26	"		5	"	Good	"	Good	Water-closet in cellar	
55	"	Laborer	78	Female	74	"		5	"	"	"	Damp	Privy adjoining house	
56	"	Bookkeeper	79	Male	15	"		2	"	"	Satisfactory	Good		
57	Irish	Laborer	80	Female	1	"		1	"	Fair	Waste pipe not trapped	Damp	Water-closet in cellar	
			81	"	5	"								
58	"	Glass Blower	82	"	8	"		4	"	"	Opening in D. P. in cellar	"	Privy in yard 10 feet from house	
59	American	Watchmaker	83	Male	15	"	Fatal	7	"	Good	Satisfactory	Good	Water-closet in bath-room	Took meals in house of No. 51 on this table.
60	"	Car Builder	84	"	9	"		5	"	"	"	Damp and off've	12 feet from house	Insufficient supply of water in W. C.
61	"	Salesman	85	Female	3½	"		6	"	"	Waste pipe not trapped; into cesspool 2 ft. from house.	Damp	Water closet in cellar	Insufficient supply of water in W. C.
62	"	Broker	86	Male	30	"		5	Clayey Gravel	"	Drains defective	Damp		
			87	Female	3	June								
63	"	Blacksmith	88	Male	8	May		2	Gravel	"	Waste pipe not trapped	Good		
64	"	Merchant	89	"	15	June		2	"	"	"	Basement Rooms	Water-closet in bath-room	
65	"	Laborer	90	"	8	"	Fatal	3	Clayey Gravel	Fair	"	Damp	Water-closet in cellar	
66	"	Carpeuter	91	"	2	"		1	"	"	"	"	Privy 4 feet from house; offensive	
67	"	Clerk	92	Female	7	"		7	Gravel	Good	"	Good		
68	"	Carver	93	"	30	"		2	"	"	"	"	Water-closet in cellar	Insufficient supply of water in W. C.
69	"	Painter	94	"	12	"		1	"	"	"	"	Privy 6 feet from house	
70	"	Clerk	95	"	7	"		8	"	"	"	"		
71	Irish	Laborer	96	Male	6	"		6	Clayey Gravel	Low	No drainage facilities	No cellar	Privy near house	
72	"	Clerk	97	Female	31	"		7	Gravel	Fair	Waste pipe not trapped	Damp	Water-closet in cellar	
73	"	Laborer	98	"	4	"	Fatal	4	"	"	"	"	Privy 12 feet from house	Wooden box waste pipe.
74	American	Salesman	99	"	4	"		4	"	Good	Drainage not ventilated	Dry		
75	"	Restaurant	100	"	2	"	Fatal	2	"	"	"	"	Privy in yard	Scarlet Fever in this house in July, 1883.
			101	"	2	July								
76	Irish	Laborer	102	"	7½	June		4	"	"	Water-closet in cellar offensive	"		
77	American	Agent	103	"	7	July		2	"	"	Defect in drain; W. P. not trapped	Damp	Water-closet in cellar defective	
			104	"	5	"								

No. of Family.	Nationality.	Occupation of Head of Family.	No. of Patient.	Sex of Patient.	Age of Patient.	Date of Sickness.	Result.	District.	Soil.	Locality.	House Drainage.	Condition of Cellar.	Privy.	Remarks.
78	Irish	Laborer	105	Female	6	July		4	Gravel	Fair	Drainage not ventilated	Damp	Water-closet in cellar offensive	Played with child 101 on this table.
79	American	Salesman	106	"	4	"		7	"	Good	Waste pipe not trapped; D. P. in cellar defective	"	Water-closet in cellar defective	
80	Irish	Milkman	107	"	31	"	Fatal	3	Clayey Gravel	Fair	" " D. P. in cellar defective	"	Privy in yard offensive	
81	American	Grocer	108	Male	7	"		7	"	Good	" " " " " " " "	Dry	Water-closet in cellar	
82	Nova Scotia	Laborer	109	Female	4	August								
83	Irish	"	110	"	35	July	Fatal	6	Clayey Gravel	Fair	Into cesspool 8 ft. from house; D. P. in cellar defective	Damp	Privy 6 feet from house	Drainage from six houses out on surface. Overflow from vault into D.P. Off've odor [in house from same. Set bowl in chamber; at times offensive [odor from same. Direct ventilation from sewer into W. C. W.C. supplied with waste water from sink. W. C. insufficiently supplied with water.
84	"	"	111	Male	5	August		4	"	"	Drainage not ventilated	"	Water-closet in cellar offensive	
85	"	"	112	Female	6	"		4	Clay	"	Waste pipe not trapped; D. P. defective	"	10 feet from house; offensive	
86	"	"	113	"	20	"		1	Clayey Gravel	"	" " W. P. and D. P. defective	"	6 " " " "	
87	"	"	114	"	4	"		1	"	"	" " D. P. defective	"	4 " " " "	
88	American	Paper Hanger	115	Male	5	"		3	Clay	Low	Drainage out on surface	"	3 " " " "	
89	"	Grocer	116	Female	8m	"		4	Clayey Gravel	Fair	Waste pipe not trapped	Dry	8 feet from house	
90	"	Agent	117	"	29	"		5	Sand	Good	" " W. P. and D. P. defective	"	Water-closet in cellar	
91	Irish	Laborer	118	"	3	"	Fatal							
92	American	Salesman	119	"	30	"								
93	Irish	Furniture Pac'r	120	"	4½	"		4	Gravel	"	" " " " " " " "	"	" " " " " " " "	Drainage from six houses out on surface. Overflow from vault into D.P. Off've odor [in house from same. Set bowl in chamber; at times offensive [odor from same. Direct ventilation from sewer into W. C. W.C. supplied with waste water from sink. W. C. insufficiently supplied with water.
94	Canada	Artist	121	Male	6	September		8	Clayey Gravel	Low	No drainage facilities	No cellar	6 feet from house; offensive	
95	American	Cabinet Maker	122	Female	40	"	Fatal	5	Gravel	Good	Waste pipe not trapped; drainage out on surface	Dry	Adjoining house; offensive	
96	"	Merchant	123	"	1½	October		3	Clayey Gravel	Low	No drainage facilities	Damp	" " " " " " " "	
97	Irish	Laborer	124	Male	11	"		2	Gravel	Good	Waste pipe not trapped	Basement rooms	12 feet from house	
98	"	Painter	125	Female	20	"		5	"	Fair	" " D. and W. P. defective	Damp	Water-closet in cellar offensive	
99	"	Blacksmith	126	Male	11	"	Fatal	5	Clayey Gravel	Good	Drainage not ventilated	Dry	Water-closet in cellar	
100	"	Widow	127	Female	38	"		1	"	Fair	No drainage facilities	Damp	6 feet from house; offensive	
101	American	Salesman	128	"	3	November		3	Sand	Good	Waste pipe not trapped	Dry	12 feet from house	
102	"	Building mover	129	"	10	"		9	"	"	Water-closet not trapped	"	Water-closet adjoining kitchen	
103	"	Pr't'g Business	130	"	3	"								Water-closet offensive. [from same. Cesspool adjoining house; offensive odor
104	Irish	Laborer	131	Male	6	"		3	"	Fair	Waste pipe not trapped	"	" " " " " " " "	
105	"	"	132	"	11	"		9	Gravel	Good	Drainage not ventilated	"	Water-closet in bath-room	
106	"	"	133	Female	4	"	Fatal	7	"	"	" " " " " " " "	"	Water-closet in cellar	
107	"	"	134	"	4	"								
108	"	"	135	Male	5	"		9	"	"	Soil pipe not properly ventilated	"	" " " " " " " "	
109	German	Currier	136	"	6	December		1	"	Low	No drainage facilities	No cellar	6 feet from house; offensive	
110	American	Carpenter	137	Female	1	November		4	Clayey Gravel	"	Waste pipe not trapped	Damp	10 feet from house	
111	"	"	138	Male	3½	"		6	"	"	Into cesspool 3 feet from house; W. P. not trapped	Basement rooms	8 " " " " " " " "	
112	"	"	139	"	3	"	Fatal	6	"	"	No drainage facilities	Damp	6 feet from house; offensive	
113	"	"	140	"	5	"		4	Sand	Fair	Waste pipe not trapped	Dry	8 " " " " " " " "	
114	"	"	141	"	12	December		5	Gravel	Good	" " D. P. defective	"	Water-closet in cellar	
115	"	"	142	Female	5	"	Fatal	5	"	"	W. P. not properly trapped; D. and W. P. defective	Damp	" " " " " " " "	
116	Irish	Teamster	143	Male	8	"		9	"	"	Drainage not ventilated	"	" " " " " " " "	
117	American	Produce Dealer	144	Female	7	"	Fatal	8	"	"	Waste pipe not trapped	Dry	Water-closet in L of house	
118	"	Salesman	145	Male	35	"		9	"	"	Waste pipe not properly trapped	"	8 feet from house; offensive	
119	"	Laborer	146	"	5	"	Fatal							Insufficient supply of water in W. C.
120	"	"	147	Female	2	"		7	"	"	Waste pipe not trapped; D. and W. P. defective	Damp	" " " " " " " "	
121	"	"	148	Male	6	"		5	"	"	" " " " " " " "	Dry	Water-closet in cellar	
122	Irish	Painter	149	Female	9	"		1	Clayey Gravel	Fair	" " " " " " " "	No cellar	" " " " " " " "	
123	American	Clerk	150	Male	17	"		5	Gravel	Good	Defect in drain pipe in cellar	Dry	" " " " " " " "	
124	"	Merchant	151	Female	3	"		5	"	"	" " " " " " " "	"	Water-closet in bath-room	
125	"	"	152	"	2½	"		5	"	"	" " " " " " " "	"	Water-closet in L of house	
126	"	"	153	"	7	"		5	"	"	Drainage not ventilated	"	" " " " " " " "	
127	Irish	Laborer	154	Male	30	"		1	"	Fair	Waste pipe not trapped	Damp	Water-closet in cellar; offensive	
128	American	Painter	155	Female	16	"		1	"	"	" " " " " " " "	"	Water-closet in cellar	
129	"	"	156	"	11	"		5	"	"	" " " " " " " "	"	" " " " " " " "	

SCARLET FEVER, DIPHTHERIA, AND TYPHOID FEVER REPORTED IN 1883.

MONTHS.	SCARLET FEVER.			DIPHTHERIA.			TYPHOID FEVER.		
	Cases reported.	Number of deaths.	Percentage of deaths.	Cases reported.	Number of deaths.	Percentage of deaths.	Cases reported.	Number of deaths.	Percentage of deaths.
January.....	14	2	14	23	2	9	8	2	25
February.....	13	.....	.....	16	3	19	7	1	14
March.....	11	1	9	18	3	17	1	.....	.....
April.....	5	1	20	18	6	33	3	.....	.....
May.....	12	.....	.....	12	1	8	5	1	20
June.....	8	1	12½	14	3	21	3	1	33
July.....	2	.....	.....	9	3	33	1	1	100
August.....	1	.....	.....	11	1	9	4	1	25
September.....	2	1	50	2	1	50	6	2	33
October.....	3	.....	.....	5	2	40	8	3	37½
November.....	7	.....	.....	18	1	6	6	.....	.....
December.....	6	.....	.....	10	5	50	2	1	50
Total.....	84	6	7	156	31	20	54	13	24

DEATHS FROM SCARLET FEVER, DIPHTHERIA, AND TYPHOID FEVER IN 1877, 1878, 1879, 1880, 1881, 1882 AND 1883.

MONTHS.	SCARLET FEVER.							DIPHTHERIA.							TYPHOID FEVER.						
	1877.	1878.	1879.	1880.	1881.	1882.	1883.	1877.	1878.	1879.	1880.	1881.	1882.	1883.	1877.	1878.	1879.	1880.	1881.	1882.	1883.
January.....	4	..	4	2	..	..	2	..	4	6	7	7	11	2	2	..	..	..	..	1	2
February.....	..	..	1	1	..	1	..	4	4	4	..	4	5	3	..	..	..	..	1	..	1
March.....	1	..	1	1	..	..	1	9	5	..	..	7	7	3	..	..	..	..	2	1	..
April.....	..	1	2	..	..	..	1	7	1	1	1	2	8	6	..	..	..	..	1	..	..
May.....	..	..	..	..	1	..	..	8	..	..	..	3	5	1	..	..	1	..	..	..	1
June.....	..	..	1	..	..	..	1	6	1	1	..	3	2	3	..	..	1	..	1	1	1
July.....	1	..	2	..	..	..	..	1	2	..	..	2	1	3	1	..	..	1	..	..	1
August.....	2	..	..	..	..	1	..	3	1	4	..	3	..	1	..	2	..	1	..	..	1
September.....	..	..	..	2	..	..	1	4	1	2	..	2	1	1	..	1	1	..	1	3	2
October.....	..	3	..	..	..	..	..	4	2	5	2	6	1	2	1	1	..	2	2	1	3
November.....	1	4	3	..	..	..	..	5	1	2	1	2	7	1	..	..	1	1	1	..	..
December.....	1	7	2	..	..	2	..	8	5	4	8	3	4	5	2	1	..	1	1	..	1
Totals.....	10	15	16	6	1	4	6	59	27	29	19	44	52	31	6	5	3	7	8	8	13

DISTRICTS.

We have continued the comparison, by districts, of the number of deaths, the prevalence of the principal causes of death, the prevalence of dangerous diseases, and the number of nuisances abated.

The ten health districts are indicated on the accompanying map, which also shows the locations of sewers constructed prior to January 1, 1879, and the locations of the several cases reported and of fatal cases of scarlet fever, diphtheria, and typhoid fever in 1883.

The soil and elevation of the different districts are as follows:—

SOIL.—In Districts I., II., III., V., VI., VII., VIII. and X., and a part of IX., the soil is chiefly clay or clayey gravel, with considerable ledge in Districts VII. and VIII.; and in District IV. and the remainder of District IX. it is sandy.

ELEVATION.—In Districts I., III. and IV. and that part of District VIII. which borders on Mystic River the elevation is low, and in the remainder of the city it is generally high, ranging in parts of Districts II., V., VI., VII., VIII. and X., from 90 to 145 feet above mean low tide.

The four following tables show—

First.—The area, the estimated population, number of dwellings and people to each dwelling in the several districts in the year 1883, and the number of deaths in each district for the last ten years (exclusive of deaths at the McLean Insane Asylum), with the rate per thousand of population.

Second.—The five principal causes of death in Somerville in 1883, with the number of deaths from each and the rate per thousand of population, in each district.

Third.—The number of cases of scarlet fever, diphtheria and typhoid fever reported and the number of deaths from each of these diseases in each district in 1883, and the number of cases and number of deaths per thousand of population.

Fourth.—The number of nuisances abated in each district in 1883.

MAP OF SOMERVILLE,

1883.

SCALE.

Showing Locations of Diseases
Dangerous to the Public Health, for the year 1883



Sewers shown thus: -----

Boundaries of Health Dists. ———

REPORTED CASES, 1883.

Scarlet Fever, . . . • Fatal cases, . . . •
Typhoid " . . . ■ " " " " ■
Diphtheria, . . . ▲ " " " " ▲

TABLE OF DEATHS IN EACH DISTRICT DURING THE LAST TEN YEARS, EXCLUSIVE OF DEATHS IN THE MCLEAN ASYLUM.

Districts	I.		II.		III.		IV.		V.		VI.		VII.		VIII.		IX.		X.		Ent. City.	
	No. of Deaths.	Rate per 1,000.	No. of Deaths.	Rate per 1,000.	No. of Deaths.	Rate per 1,000.	No. of Deaths.	Rate per 1,000.	No. of Deaths.	Rate per 1,000.	No. of Deaths.	Rate per 1,000.	No. of Deaths.	Rate per 1,000.	No. of Deaths.	Rate per 1,000.	No. of Deaths.	Rate per 1,000.	No. of Deaths.	Rate per 1,000.	No. of Deaths.	Rate per 1,000.
Area	337 A.		107 A.		93 A.		171 A.		361 A.		285 A.		194 A.		482 A.		174 A.		456 A.		2,630 A.	
Population . . .	5,222		5,096		1,975		3,504		5,479		1,210		2,993		891		1,592		701		28,663	
Dwellings . . .	775		721		303		531		865		270		473		170		290		145		4,543	
Average in each dwelling . . .	6.7		7.1		6.5		6.6		6.3		4.5		6.3		5.2		5.5		4.8		6.3	
Year.	No. of Deaths.	Rate per 1,000.	No. of Deaths.	Rate per 1,000.	No. of Deaths.	Rate per 1,000.	No. of Deaths.	Rate per 1,000.	No. of Deaths.	Rate per 1,000.	No. of Deaths.	Rate per 1,000.	No. of Deaths.	Rate per 1,000.	No. of Deaths.	Rate per 1,000.	No. of Deaths.	Rate per 1,000.	No. of Deaths.	Rate per 1,000.	No. of Deaths.	Rate per 1,000.
	147	37	53	14	24	16	86	33	67	16	34	37	26	11	17	25	18	15	3	8	475	22
	149	37	84	22	26	17	56	21	75	18	29	32	32	14	13	19	15	12	7	15	486	22
	113	30	62	17	17	12	62	24	78	20	23	26	25	12	11	17	23	22	10	20	426	21
	126	32	57	15	18	12	57	22	61	15	31	34	29	13	11	18	27	22	6	10	428	20
	92	22	50	12	32	21	53	19	53	12	24	25	32	14	15	21	32	27	7	13	375	17
	92	21	50	12	29	18	62	22	77	17	14	14	22	9	14	19	16	12	9	16	385	16
	104	23	56	13	34	20	55	18	70	15	30	28	32	12	19	24	12	10	11	18	423	17
	111	23	64	14	41	23	48	15	62	12	36	32	38	14	18	22	19	13	8	12	445	17
	119	24	57	12	42	22	58	17	72	14	32	27	43	15	11	13	17	11	13	19	464	17
1883	138	26	59	12	49	25	60	17	76	14	40	33	51	17	17	19	28	18	9	13	527	18
10 years	1,191	27	592	14	312	19	597	20	691	15	293	29	330	13	147	20	199	15	82	14	4,434	19

In 1883.

TABLE SHOWING THE FIVE PRINCIPAL CAUSES OF DEATH IN SOMERVILLE IN 1883 WITH THE NUMBER AND RATE IN EACH DISTRICT.

DISTRICTS.	CONSUMPTION.		PNEUMONIA.		DIPHTHERIA.		CHOLERA INFANTUM.		HEART DISEASE.	
	No. of Deaths.	No. per 1,000 of pop.	No. of Deaths.	No. per 1,000 of pop.	No. of Deaths.	No. per 1,000 of pop.	No. of Deaths.	No. per 1,000 of pop.	No. of Deaths.	No. per 1,000 of pop.
I . . .	23	4.40	15	2.87	3	0.57	14	2.68	2	0.38
II . . .	13	2.55	5	0.98	5	0.98	1	0.20	3	0.59
III . . .	9	4.56	2	1.01	3	1.52	2	1.01		1.52
IV . . .	10	2.85	9	2.56	1	0.29	3	0.86	4	1.14
V . . .	5	0.91	2	0.37	8	1.46	2	0.37	6	1.10
VI . . .	3	2.48	2	1.65	2	1.65	4	3.31	2	1.65
VII . . .	7	2.34	3	1.00	5	1.67	..	..	3	1.00
VIII . . .	4	4.50	1	1.12	..	..	..	..	..	..
IX . . .	6	3.77	3	1.88	4	2.51	1	0.63	1	0.63
X . . .	1	1.43	..	..	..	..	..	..	1	1.43
Total . .	81	2.83	42	1.47	31	1.08	27	0.94	25	0.87

TABLE OF SCARLET FEVER, DIPHTHERIA, AND TYPHOID FEVER IN EACH DISTRICT IN 1883.

DISTRICT.	SCARLET FEVER.				DIPHTHERIA.				TYPHOID FEVER.			
	Cases reported.	Deaths.	Cases per 1,000 of pop.	Deaths per 1,000 of pop.	Cases reported.	Deaths.	Cases per 1,000 of pop.	Deaths per 1,000 of pop.	Cases reported.	Deaths.	Cases per 1,000 of pop.	Deaths per 1,000 of pop.
I . .	10	2	1.91	0.38	17	3	3.25	0.57	26	5	4.98	0.96
II . .	18	1	3.53	0.20	22	5	4.32	0.98	5	..	0.98	..
III . .	6	..	3.04	..	13	3	6.58	1.52	2	..	1.01	..
IV . .	1	..	0.29	..	19	1	5.42	0.29	6	2	1.71	0.57
V . .	15	..	2.74	..	42	8	7.67	1.46	9	4	1.64	0.73
VI . .	16	1	13.22	0.83	8	2	6.61	1.65	4	1	3.31	0.83
VII . .	11	2	3.68	0.67	16	5	5.34	1.67	1	..	0.33	..
VIII . .	3	..	3.37	..	7	..	7.86	..	..	..	..	..
IX . .	4	..	2.51	..	10	4	6.28	2.51	1	1	0.63	0.63
X . .	..	..	..	..	2	..	2.85	..	..	..	..	..
Total .	84	6	2.93	0.21	156	31	5.44	1.08	54	13	1.88	0.45

NUISANCES ABATED IN EACH DISTRICT IN 1883.

District.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.	Total.
Population	5222	5096	1975	3504	5479	1210	2993	891	1592	701	28,663
Ashes in cellar		1			3						4
Cellar damp	7	6	3	2	8	1	3	1	1	1	33
Cesspool defective				2	1	1					4
" offensive		1		1	1	3	1		3		10
" overflowing		1				1					2
" under house	1						1				2
Connections of drainage pipes defective	21	11	7	5	17	2	5	1	2	1	72
Drainage defective	28	4	11	3	12	2	3	1	4	2	70
" emptying in cellar	8	6	6	4	1	2	2		1	1	31
" emptying on surface	11	1	2	7	2	10	2		2		37
Drain-pipe clogged		1	1	1		1	1		1		6
" defective	10	7	2	1	5		6		2	1	34
Hens kept in cellar	4		1	1		1					7
Manure exposed and offensive	7		1	2	5	1		1	3	1	21
No house-drainage facilities	1				1	1					3
Offal in cellar					1						1
" on land	17	4	1	7	4	2	1	1			37
Offensive odor in and about dwellings	2	2	2	1	2	1	4		1		15
Opening in drain-pipe in cellar		1		1	3	1	2				8
Premises filthy	10	1			1	3	2				17
Privy filthy	2			1		1					4
Privy-vault full	49	11	1	13	8	12	4	1			99
" leaking	1										1
" not properly constructed	1	1			2						4
" offensive	36	28	6	27	18	7	8	1	7	2	140
Slaughter-house offensive	1										1
Slops thrown on surface	10			4	3	1			1		19
Soil-pipe clogged	1										1
" not ventilated				2	3		2	1	1		9
Stable and stable-premises filthy and offensive	1			2	2	2	1				8
Stagnant water in house-cellar	7	3	6		5	3	1		1		26
" " on surface		1			8	3	1		1		14
Waste-pipe clogged		1			1						2
" defective	2				1						3
" leaking							1				1
" not trapped	55	22	17	24	36	8	18	5	1		186
Water-closet defective	1	1	1	1	5		3		1		13
" insufficiently supplied with water		2	1		7		2		2		14
" not supplied with water					1				1		2
" offensive	4	3	3	2	8		3	1			24
" not trapped		1							1		2
Well-water unfit for use						1					1
Wooden waste-pipes and drains	10	2		1	1	1	1				16
	308	123	72	115	176	72	78	14	37	9	1004

APPROPRIATION FOR HEALTH DEPARTMENT AND EXPENDITURES THEREFROM, 1883.

APPROPRIATION,		\$3,000 00
RECEIPTS : —		
For fees for permits to keep swine and goats and to collect grease,	\$292 00	
Ashes sold,	80 38	372 38
Total credit,		<u>\$3,372 38</u>
EXPENDITURES : —		
For Inspector's salary,	\$500 00	
Collecting ashes,	2,416 94	
Collecting offal,	292 17	
Fumigating,	322 66	
Oil of peppermint,	11 20	
Vaccine virus,	19 00	
Burying dead animals,	10 50	
Books, stationery, printing, adver- tising and postage,	137 50	
Thermometers and an anemometer,	39 00	
Abating nuisances,	18 38	
Hack hire,	37 00	
Post-office box,	3 00	
Meals,	5 00	
Expressing, etc.	1 25	
Care of a typhus fever patient, whose settlement was in Boston and to which city a bill has been rendered,	345 67	
Total debit,		<u>4,159 27</u>
Excess of expenditures,		<u><u>\$786 89</u></u>

GEORGE A. KIMBALL, C. E.
GEO. C. SKILTON.
THOMAS M. DURELL, M.D.

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REPORT
OF THE
CITY PHYSICIAN.

CITY OF SOMERVILLE.

IN BOARD OF MAYOR AND ALDERMEN, January 17, 1884.

Referred to the Committee on printing, to be printed with the Annual Reports for 1883. Sent down for concurrence.

CHARLES E. GILMAN, *Clerk.*

IN COMMON COUNCIL, January 17, 1884.

Concurred in.

DOUGLAS FRAZER, *Clerk.*

CITY OF SOMERVILLE.

REPORT OF THE CITY PHYSICIAN.

To His Honor the Mayor and the City Council :—

GENTLEMEN : — I respectfully present my second annual report as City Physician.

This report, is, of necessity, an imperfect one, as I was prostrated by sickness for two months during the busiest season of the year, and have been compelled to rely upon the other physicians for a report of the work done during this time.

I wish here, publicly, to thank my brother physicians for their kindness, both to me and to the city patients, during my sickness.

I have made, during the year, 2,541 visits : of these, 350 were surgical ; 52 visits were made to persons at the police station. I have, in accordance with the law, viewed the bodies, and given certificates of the probable cause of death (making a post-mortem examination in two cases), of 16 persons who died unattended by a physician. I have examined 10 persons, supposed to be insane, and have given certificates in six cases. I have vaccinated 302 persons at my office and elsewhere. Seventy-one persons had teeth extracted at my office.

In compliance with the city ordinances, I have examined 4 applicants for the police force. I have, with the other gentlemen of the Board of Health, spent a great deal of time in the examination of the several school-houses in the city.

In closing this report, I desire to repeat my wish, expressed in the last annual report, that an almshouse, with suitable accom-

modations for sick paupers, be provided. Every day of my practice strengthens my belief that this is the only way of properly caring for these unfortunate people.

Respectfully submitted,

THOMAS M. DURELL, M. D.

City Physician.

SOMERVILLE, January 16, 1884.

REPORT

OF THE

TRUSTEES OF THE PUBLIC LIBRARY.

CITY OF SOMERVILLE.

IN BOARD OF MAYOR AND ALDERMEN, Feb 27, 1884.

Referred to the Committee on printing, to be printed with the Annual Reports for 1883. Sent down for concurrence.

CHARLES E. GILMAN, *Clerk.*

IN COMMON COUNCIL, Feb. 28, 1884.

Concurred in.

DOUGLAS FRAZER, *Clerk.*

CITY OF SOMERVILLE.

ELEVENTH ANNUAL REPORT OF THE TRUSTEES OF THE PUBLIC LIBRARY.

To the Members of the City Council:—

GENTLEMEN:—The librarian's annual statement, hereto appended, shows a gratifying increase in the circulation and wise use of our books. It is evident that many of the teachers of our public schools, are coming to direct their pupils to valuable works of reference not only, but to profitable books for general information and literary culture. The trustees feel that such action is to be commended, as helping to give the library its rightful place and use among the free educational agencies, which the city does well to provide and foster. The book committee keep in mind in their purchases, this function of the library, and are grateful to all parents or teachers who will furnish hints, or lists of books, that may assist them in making selections. The trustees would remind such persons and the public, that a supplementary catalogue will be at once issued, which will furnish information concerning the additions of the last four years. They would also remind your honorable Board, that the necessity of this publication is a reason for asking for a somewhat larger appropriation for the coming year.

The plans presented to your Board by us, at the opening of the year, for a one-story addition to the City Hall, at an estimated expense of four thousand five hundred dollars (\$4,500), to secure needed additional accommodations for the library, did not meet the views of the committee on public property, which proposed instead a removal of the library to the basement of the high school-building. This project was found to be for so many reasons undesirable that it was dropped, and no further action in the matter has been taken. The trustees are still of opinion that their proposed

plan is the least expensive of feasible ones, to furnish the additional room that grows more necessary with every year. Of course, it would be much more desirable to have a new library building if that can be brought about. The trustees are sorry to say that a movement initiated by the librarian, and actively co-operated in by them, to secure by subscription a generous sum towards erecting such a building, has not met with so general response as they had hoped and expected; and they can only commend anew to you, and to the people of Somerville, the need which should somehow speedily be met, for the adequate and convenient use of our books, and for the credit and good name of our growing and increasingly prosperous city.

The financial statement of the year is as follows:—

BALANCE, from 1882,	\$100 29	
APPROPRIATION,	1,500 00	
Dog licenses,	1,083 63	
Fines,	241 56	
Catalogues,	31 30	
		<hr/>
		\$2,956 78
		<hr/>
EXPENDED FOR SALARIES,	\$1,307 31	
Books,	1,212 75	
Printing,	177 00	
Binding,	70 17	
Newspapers,	12 00	
Stamps,	15 00	
Insurance,	18 75	
Clock,	3 00	
Repairs,	8 00	
Map,	2 50	
Expressing,	41 85	
		<hr/>
	\$2,868 33	
BALANCE to credit in account, 1884,	88 45	
		<hr/>
		\$2,956 78
		<hr/>

For the Trustees,

HENRY H. BARBER,

President.

LIBRARIAN'S REPORT.

During the past year the library has been open 306 days, and 70,531 books have been delivered ; of this number 1,195 have been used here.

Our cyclopædias, dictionaries and other books of reference have never been so much used, as the teachers send their pupils daily for information to be found in them.

The whole number of books in the library is 10,574. The number of books bound during the year was 206, not including the periodicals : 102 were withdrawn because worn out. The number of books covered was, 10,858, and 2,000 postal notices were written and sent.

The largest delivery on any one day was 690, and the smallest 63.

Our circulation steadily increases, and there is also a great gain in the intelligent use of the books. When the alarm sounds for closing schools, we know that our room will be filled in consequence, and the reading table be surrounded with eager readers. The conditions required are neatness and a quiet deportment.

Our books are generally well used, and free from pencil marks, and but few fines have been imposed for that cause during the year. Our inconveniences it is useless to recount, but our added cares each year would be greatly diminished could we only have ample room.

H. A. ADAMS.

Librarian.

REPORT
OF THE
COMMITTEE ON HIGHWAYS.

CITY OF SOMERVILLE.

IN BOARD OF MAYOR AND ALDERMEN, Jan. 2, 1884.

Report accepted and referred to the next City Council, to be printed in the Annual Reports of 1883. Sent down for concurrence.

CHARLES E. GILMAN, *Clerk.*

IN COMMON COUNCIL, Jan. 2, 1884.

Concurred in.

DOUGLAS FRAZAR, *Clerk.*

CITY OF SOMERVILLE.

IN COMMITTEE ON HIGHWAYS, Jan. 2, 1884.

To the City Council of Somerville :—

The Committee on Highways submits the following report of the work of the department for the year 1883 :—

STATEMENT OF APPROPRIATIONS, EXPENDITURES, AND PROPERTY.

HIGHWAYS ACCOUNT.

APPROPRIATION,		\$32,000 00
RECEIPTS AND CREDITS :—		
For labor and materials furnished in 1882, the bills for which re- mained uncollected Jan. 1, 1883, as stated in our last annual report,	\$177 33	
Labor and materials furnished in 1881, the bills for which re- mained uncollected Jan. 1, 1883,	45 10	
Rent of dwellings at City Farm,	136 00	
Pasturage at Waltham Gravel Land for 1881, 1882, and 1883,	\$160 00	
Less expenses of said land,—		
Taxes,	\$115 60	
Labor and team- ing, \$68.68, less stone to crush- er, \$32.40,	36 28	
	<u>151 88</u>	
		<u>8 12</u>
<i>Amounts carried forward,</i>	\$366 55	\$32,000 00

<i>Amounts brought forward,</i>	\$366 55	\$32,000 00
Pasturage at Tufts Street Land,	5 00	
Excess of charges for materials over the cost, as hereinafter specified,	662 78	
Gross earnings of city teams, at \$1.50 per day for each horse, \$6,105 00		
Less cost of mainte- nance, as hereinaf- ter specified,	5,370 37	
	<hr/> 734 63	
		<hr/> 1,768 96
Value of materials on hand Jan. 1, 1883,		767 48
Value of tools and property on hand Jan. 1, 1883,		6,830 65
Total credit,		<hr/> <hr/> \$41,367 09

EXPENDITURES : —

For construction of Austin Street,	\$956 60
“ Cottage Avenue,	458 66
“ Herbert Street,	270 94
“ Jaques Street,	1,137 44
“ Newbury Street,	735 78
Laying out Evergreen Avenue, extension (advertising and re- cording release),	11 30
Street crossings,	242 02
Street signs,	39 47
Repairs of Summer Street, from Putnam Street to one hundred feet east of Central Street, necessitated by the laying of horse-railroad tracks,	567 63
Repairs of streets and paving gut- ters in connection with the set- ting of edgestones : —	
<i>Amount carried forward,</i>	<hr/> \$4,419 84

<i>Amount brought forward,</i>		\$4,419 84
Aldersey Street repairs, (including grading lot and repairing fence),	\$264 73	
Aldersey Street paving,	400 82	
Austin Street “	936 13	
Concord Avenue repairs,	316 85	
“ “ paving,	618 56	
Davis Square repairs,	265 21	
“ “ paving,	106 32	
Glen Street repairs, between Broadway and Webster,	241 46	
Glen Street paving, between Broadway and Webster,	828 34	
Glen Street repairs, between Pearl and Flint,	232 61	
Glen Street paving, between Pearl and Flint,	339 25	
Herbert Street paving,	101 75	
	<hr/>	4,652 03
Widening and repairing Mystic Avenue from the Park to the Boston line,		3,002 38
Ordinary repairs of streets : —		
Benedict Street, near Austin,	47 04	
Brickyard Lane,	226 99	
Broadway, from Holland Street to Alewife Brook,	395 36	
Curtis Street,	479 81	
Medford Street, from Washington to Cross,	527 65	
Poplar Street,	122 74	
Somerville Avenue, east of Laurel Street,	2,021 54	
Summer Street, from Belmont to Cedar,	159 14	
Webster Street,	302 68	
General repairs,	5,458 98	
	<hr/>	9,741 93
<i>Amount carried forward,</i>		\$21,816 18

<i>Amount brought forward,</i>	\$21,816 18
Repairs of stone paving,	232 97
Repairs of brick sidewalks,	664 83
Cost to city of sidewalks, the bricks and edgestones for which have been furnished by abutters,	487 83
Repairs of streets and paving of gutters, made necessary by said sidewalks,	270 75
Paving gutters and resetting edgestones at N. Gilson's estate on Linden Avenue,	96 06
Cost to city of openings for streets, the paving-stock used being furnished by the land- owners,	54 82
Half cost of changing stone drive- ways to brick driveways, the other half being paid by abut- ters,	19 76
Clearing and repairing streets after the laying of water and gas pipes and the construction of sewers, (including for clearing Summer Street between Ash- land and Cherry Streets, and macadamizing and gravelling same between Cedar and Cherry Streets, \$606.45),	703 78
Removing snow and ice, and care of icy sidewalks,	1,877 70
Cleaning streets,	2,092 85
One half cost of maintaining Mid- dlesex Avenue Bridge for the year 1882, the other half being paid by the town of Medford,	421 84
Repairs of Middlesex Avenue Dike,	52 80
Setting trees,	87 58
Trimming trees,	20 87
<i>Amount carried forward,</i>	<hr/> \$28,900 62

<i>Amount brought forward,</i>		\$28,900 62
Balance of cost of drinking fountain in Union Square,		194 37
Repairs of dwellings at City Farm,		222 73
Tax on Wakefield gravel land,		23 87
Tax on Winchester gravel land,		9 47
Collecting ashes,	\$2,461 77	
Less credit from Health Department account,	2,416 94	
	<hr/>	44 83
Repairs of tools,		119 96
Salaries of Superintendent and Acting Superintendent,		1,370 00
Board of Superintendent's horses,		153 15
Rent of Superintendent's telephone,		12 20
Books, stationery and printing,		91 10
Sundry small expenses,		43 96
Private work, the bills for which remain uncollected,		209 31
Value of tools, etc., Jan. 1, 1883,	\$216 45	
Added during the year,	194 39	
	<hr/>	\$410 84
Value of the same Dec. 31, 1883,	383 25	
Depreciation,		27 59
Value of materials on hand Dec. 31, 1883,		705 63
Value of property on hand Dec. 31, 1883:—		
Horses,	\$3,750 00	
Carts and implements used with horses,	2,162 25	
Harnesses and horse-clothing,	595 00	
Stable-utensils and property,	127 65	
Tools, tool-house and tool-chests,	383 25	
Stone crusher and fittings,	1,206 60	
	<hr/>	8,224 75
Total debit,		\$40,353 54
Balance unexpended,		\$1,013 55

The earnings and expenses of the City
Teams have been as follows : —

EARNINGS, at \$1.50 per day for each horse,	\$6,105 00
--	------------

EXPENSES : —

For grain,	\$1,682 12
Hay and straw,	744 73
Cutting hay,	66 22
Shoeing,	378 22
Doctoring and medicine,	140 03
Repairs of carts and imple- ments used with horses,	414 36
Repairs of harnesses,	167 58
Stable expenses and repairs of stable (including pay of stable- man),	1,027 78

Value of carts and im- plements used with horses, Jan. 1, 1883,	\$1,923 70
Added during the year,	484 70
Total,	\$2,408 40

Value of same Dec. 31, 1883,	2,162 25
Depreciation,	246 15

Value of harnesses and horse-clothing Jan. 1, 1883,	\$576 00
Added during the year,	272 02
Total,	\$848 02

Value of same Dec. 31, 1883,	595 00
Depreciation,	253 02

<i>Amounts carried forward,</i>	\$5,120 21	\$6,105 00
---------------------------------	------------	------------

<i>Amounts brought forward,</i>	\$5,120 21	\$6,105 00
Value of horses Jan. 1,		
1883,	\$2,605 00	
Added during the year,		
(6),	\$1,625 00	
Less for three		
horses sold, 195 00		
	<u>1,430 00</u>	
Total,	\$4,035 00	
Value of same Dec.		
31, 1883,	<u>3,750 00</u>	
Depreciation (includ-		
ing two horses that		
died),	285 00	
	<u>\$5,405 21</u>	
Value of stable utensils		
and property, Dec.		
31, 1883,	\$127 65	
Value of same, Jan.		
1, 1883, as re-		
ported by Supt.,	\$57 00	
Added during the		
year,	<u>35 81</u>	
Total,	<u>92 81</u>	
Increase,	34 84	
Total expense of city teams,		<u>5,370 37</u>
Excess of earnings, as		
hereinbefore stated		
under the heading of		
"Receipts and Cred-		
its,"		<u><u>\$734 63</u></u>

The following statement shows the difference between the charges for materials and the cost of the same:—

For Gravel,—

Charges for same delivered,—

1,541 loads, 75c. \$1,155 75

12 “ \$1.00 12 00

Total, \$1,167 75

Paid F. O. Reed, and

others, for gravel

from Ten Hills Farm, \$208 40

Paid City of Chelsea,

for gravel from Everett, 46 95

Cost of teaming, 600 64

Total, 855 99

Excess of charges, \$311 76

For Sand,—

Charges for same delivered,—

647 loads \$1.00 \$647 00

50 “ 75c., 37 50

 \$684 50

Amt. on hand, Dec. 31,

1883, 25 loads \$1.00 25 00

Total, \$709 50

Estimated value of

sand on hand,

Jan. 1, 1883, \$206 38

Paid Charles J. Simp-

son for sand, 142 20

Cost of teaming, 334 57

Total, 683 15

Excess of charges, 26 35

For edge-stones and paving stock,—

Charges for same, the

weight of paving

stones being esti-

mated by measure-

ment, \$5,510 02

Amounts carried forward, \$5,510 02

 \$338 11

<i>Amounts brought forward,</i>	\$5,510 02		\$338 11
Value of stock on hand,			
Dec. 31, 1883,	85 19		
Total,		\$5,595 21	
Cost of edgestones an			
paving stock,		5,421 69	
Excess of charges,			173 52
For Holland St. Ledge Stone, —			
Charges for same,			
1,560 loads delivered			
at crusher, 60c.,	\$936 00		
1,131 loads, for bal-			
last, 25c.,	282 75		
45 loads for ballast,			
10c.,	4 50		
Total,		\$1,223 25	
Cost of labor and team-			
ing,	\$1,025 07		
Cost of powder and			
fuse, and expressing			
same,	18 34		
Total,		1,043 41	
Excess of charges,			179 84
For Macadam and Ballast,			
taken from Beacon			
Street, where a turn-			
out was laid by the			
horse-railroad Co.			
Charges for same, 116			
loads, 50c.,		\$58 00	
Cost of repairing street,		19 15	
Excess of charges,			38 85
Total excess (<i>Amount carried forward</i>),			\$730 32

<i>Amount brought forward,</i>		\$730 32
For Crushed Stone,—		
On hand Jan. 1, 1883,		
472 loads crushed		
stone, \$1.00,	\$472 00	
50 loads ledge-stone,		
60c.,	30 00	
Cost of field and ledge-		
stone delivered at		
crusher, 4,361 loads,		
60c.,	2,616 60	
Cost of labor and		
teaming at crusher,	1,787 56	
Cost of repairs and		
renewal of machin-		
ery,	419 50	
Cost of fuel,	258 81	
Cost of water,	26 67	
Cost of steam-boiler		
insurance,	15 00	
Value of crusher		
and fittings,		
Jan. 1, 1883, \$1,452 50		
Value of same,		
Dec. 31, 1883, 1,206 60		
Depreciation,	245 90	
Total cost,		\$5,872 04
Charges for Crushed Stone,		
5,574 loads at		
Crusher, \$1.00,	\$5,574 00	
2 loads, delivered,		
\$1.25,	2 50	
On hand, Dec. 31, 1883,		
210 loads crushed		
stone, \$1.00,	210 00	
30 loads ledge-stone, 60c.,	18 00	
Total,		5,804 50
Excess of cost,		67 54

Excess of charges for
materials over cost
of same, as herein-
before stated under
the heading of "Re-
ceipts and Credits,"

\$662 78

In addition to the above, labor and materials have been furnished, and the treasurer has received payment for the same, as follows:—

To the Committee on Public
Property, at school-
houses,

\$97 54

To the Committee on Public
Property, at City
Hall,

15 70

To the Committee on Sewers,
materials sold,

6 00

To private parties, con-
structing driveways,
sidewalks, etc.,

1,027 78

Total,

\$1,147 02

SIDEWALKS ACCOUNT.

APPROPRIATION,

\$3,000 00

EXPENDITURES:—

For Aldersey Street (gravel)

sidewalks, \$680 42

Austin Street (gravel)

sidewalks, 1,109 00

Concord Avenue (gravel)

sidewalks, 981 68

Davis Square (gravel)

sidewalks, 235 52

\$3,006 62

Amounts carried forward,

\$3,006 62

\$3,000 00

<i>Amounts brought forward,</i>	\$3,006 62	\$3,000 00
Glen Street (gravel) sidewalks, between Broadway and Web- ster,	\$974 94	
Glen Street (gravel) sidewalks, between Pearl and Flint,	559 54	
Herbert Street (brick) sidewalk,	381 04	
	<hr/> 1,915 52	
Total cost of sidewalks,	\$4,922 14	
Less assessments,	\$2,446 66	
And bill collected from B. & L. R.R.,	14 41	
	<hr/> 2,461 07	
Net cost to city,	\$2,461 07	
Advertising for proposals,	26 93	
	<hr/>	
Total net expenditure,		2,488 00
Balance unexpended,		<hr/> \$512 00 <hr/>

WATERING STREETS ACCOUNT.

APPROPRIATION,	\$3,000 00	
Receipts from abutters and horse- railroad companies,	2,953 16	
Value of carts, stand-pipes, and hy- drant-wrenches, Jan. 1, 1883,	2,604 00	
	<hr/>	
Total credit,		\$8,557 16
EXPENDITURES : —		
For teaming,	\$3,593 40	
Water,	1,701 76	
Repairs of carts,	234 69	
Repairs of stand-pipes and hy- drants,	86 40	
Hose,	48 00	
Collecting,	25 00	
Advertising,	10 80	
	<hr/>	
Total expenditure,	\$5,700 05	
<i>Amounts carried forward,</i>	\$5,700 05	<hr/> \$8,557 16 <hr/>

REPORT OF THE COMMITTEE ON HIGHWAYS.

233

<i>Amounts brought forward,</i>	\$5,700 05	\$8,557 16
Depreciation in value of property,	245 00	
Value of carts, stand-pipes, and hydrant-wrenches, Dec. 31, 1883,	2,359 00	
	<hr/>	
Total debit,		8,304 05
		<hr/>
Balance unexpended,		\$253 11
		<hr/>

PUBLIC PARK MAINTENANCE ACCOUNT.

APPROPRIATION,	\$1,500 00	
Less expenditures by the Committee on Public Property,	\$195 50	
And expenditures by the Committee on Fuel and Street Lights,	45 26	
	<hr/>	
	240 76	
	<hr/>	
Amount at the disposal of this Committee,		\$1,259 24
EXPENDITURES : —		
For labor,	\$538 62	
Tools, and repairs of same,	37 07	
Manure,	274 50	
Trees,	46 00	
Plants,	35 00	
Crushed stone,	32 00	
Painting summer-house,	52 35	
Expressing,	1 00	
Repairing fountain,	1 50	
Assessment for sewer in Chauncey Avenue,	214 52	
	<hr/>	
Total expenditure,		1,232 56
		<hr/>
Balance unexpended,		\$26 68
		<hr/>

CENTRAL HILL IMPROVEMENT ACCOUNT.

APPROPRIATION,	\$1,500 00	
RECEIPTS AND CREDITS : —		
For earth sold,	\$56 70	
Earth delivered on		
highways,	152 25	
Stone delivered at		
the crusher,	36 60	
	<hr/>	245 55
Total credit,		\$1,745 55
EXPENDITURES : —		
For relaying concrete walk,	\$568 08	
Labor and teaming in grading the		
hill,	1,157 33	
Manure,	18 00	
Total expenditure,	<hr/>	1,743 41
Balance unexpended.		<hr/> <hr/> \$2 14

STORMS.

The damage to the highways by storms has been very slight ; but, on the other hand, they have suffered largely from the long drouth of the summer and fall, and as it has been impracticable, on account of the prevailing dry weather, to make all the repairs thus made necessary, the road-beds in many of the streets will require attention early in the coming year.

- NEW STREETS.

Evergreen Avenue extension, from School Street to Thurston Street, was the only street accepted during the year. The abutments have opened and fenced it, and have laid a sewer in a part of it, but no work has been done upon it by the city.

Five new streets, all of which were accepted in 1882, have been constructed as follows, to wit : —

Austin Street, from Broadway to Mystic Avenue, has been

graded and prepared for macadamizing; edgestones have been set and the gutters paved on both sides in its entire length, and brick sidewalks have been laid throughout the street, except in front of four estates on the easterly side.

Cottage Avenue, from Russell Street to Chester Street, has been graded and macadamized.

Herbert Street, from Chester Street to Day Street, has been graded and macadamized; a brick sidewalk, with edgestones, has been constructed and the gutters have been paved on the southwesterly side.

Jaques Street, from Chauncey Avenue to Temple Street, has been graded and macadamized.

Newbury Street, from Holland Street to the Cambridge Line, has been graded and macadamized.

MYSTIC AVENUE.

The widening of Mystic Avenue on the southerly side, from the Park to Austin Street, has been completed; and from the Park to the Boston Line the avenue has been raised, ballasted and macadamized in a thorough manner, and a gravel sidewalk has been made on the southerly side.

No further work, except ordinary repairs, will be needed on this avenue between the Park and the Boston Line, until the abutters on the northerly side shall have filled their lands to grade.

RAILROAD BRIDGES.

No permanent improvements of railroad-bridges have been made during the year, but the Lowell Railroad Company has repaired its wooden bridges at Cross and School Streets.

DRINKING FOUNTAIN IN UNION SQUARE.

The iron drinking fountain in Union Square, which was erected at the close of the year 1882, has given perfect satisfaction to the committee, and, so far as we have heard, to the public generally. It is convenient and durable, and has needed no repairs. It cost \$219.02, of which \$24.65 was paid in 1882, and the remainder the

past year. These figures are exclusive of the cost of the lantern and gas-piping, which has been paid from Street Lights Account.

There are other places in the city where fountains are needed, and we recommend that when they are provided, they be of a pattern similar to the one in Union Square.

CENTRAL HILL IMPROVEMENT.

An appropriation of \$1,500 was made with which to begin the improvement of the City's land on Central Hill. Of this sum \$568.08 was paid for the relaying with concrete, of the walk from School Street to the High School-House, which has been done in a substantial manner. The remainder of the appropriation, with the exception of a small balance, has been expended in grading three different sections of the hill in accordance with a plan by the City Engineer; the first section being near Medford Street, the second in rear of the Unitarian Church, and the third on Highland Avenue near the Engine House, at which latter place the land has been brought to grade and covered with loam.

We recommend that an appropriation be made every year for the continuance of this improvement until it shall be completed, so that this piece of property may soon become so attractive as to aid in promoting the growth of our city.

PUBLIC PARK.

On the first of April the public park on Broadway was placed in charge of this committee in all respects except the care of the lamps, which was given to the committee on fuel and street lights..

We have had no special superintendent of the park, but it has been under the supervision of the superintendent of streets, the same as other branches of work in the department. A few plants and trees were set out in the spring, the trees, grass and walks have received proper care, and this fall a liberal quantity of manure has been spread.

SETTING TREES.

By an order dated March 21st, the superintendent of streets was authorized, under the direction of this committee, to set out trees furnished by citizens in the public streets of the city, the cost of setting to be charged to Highways Account. Under this order 133 trees have been set at a cost of \$87.58.

This is a move in the right direction. The one thing more than any other that is needed to improve the appearance of our city is the planting of shade trees, and their increase should be encouraged in every proper way. One step further is necessary in this connection, and that is to ensure the speedy and adequate punishment of those who, either thoughtlessly or maliciously, mutilate the trees. Considerable of this mischief has been done, and some measure should be taken to check it.

CHARLES RIVER STREET RAILWAY COMPANY.

This company has, during the past year, extended its tracks from Putnam Street to a point one hundred feet east of Central Street, and has built a stable and a car-house on Summer, School and Avon Streets.

By this extension it gives the residents of Spring Hill a convenient means of travel to the south and west ends of Boston, as well as to the principal centre of our own city, Union Square.

STONE CRUSHER.

The crusher has worked to excellent advantage, and has supplied all the broken or crushed stone used. Although it has had quite extensive repairs, yet the entire cost of the crushed stone, when ready for teaming to the streets, has been but a trifle more than one dollar per load; the ledge and field stone delivered at the crusher, ready for breaking, being charged at sixty cents per load, which was the price paid for field stone delivered in 1882. We have not bought any stone for the crusher during the past year, but it has been supplied with stone from the Holland Street Ledge, and with field stone collected on the streets and carted by our own teams. It will be seen by the foregoing statement of

the difference between the charges for, and cost of, materials, that if the stone from the Holland Street Ledge had been charged to the crusher at cost, the value of the production of crushed stone at \$1.00 per load would have exceeded its cost, by the sum of \$112.30. Fifty-three hundred and fourteen loads of crushed stone have been produced during the year.

STEAM ROAD ROLLER.

We renew our recommendation of last year that a steam-road-roller be purchased by the city as soon as possible, and reiterate all that was then said in its favor. We believe that with one, our roads could be built very much better and cheaper than they can be by the present method.

SUPERINTENDENT.

From the first of April to the sixth of June, the department was without a regular superintendent; but during that interval Mr. Arthur Murley, for many years a foreman on the highways, was made by this committee the acting superintendent, and, as a simple act of justice, we wish at this time to express our appreciation of the ability displayed by Mr. Murley in that position, and our sense of obligation to him for the faithful and careful manner in which he performed its duties.

STREETS IMPROVED.

NAME.	FROM	TO	IMPROVEMENT.	FEET.
Aldersey	Walnut	Vinal Ave.	Macadamized ...	500
Austin	Broadway	Mystic Ave	Graded	716
Benedict	Austin	Benedict Ave ..	"	100
Brick Yard Lane	Prospect	Webster Ave. ..	Macadamized. ...	400
Broadway	Holland	Alewife Brook.	Macadamized from Holland to Clarendon Ave., and re- paired from Clarendon Ave. to Ale- wife Brook. ...	1,400
Concord Avenue	Prospect	Marian	Macadamized in parts	600
Cottage Avenue.	Russell	Chester	Graded and mac- adamized.	551
Curtis	Broadway	Medford Line..	Graded from Broadway, 600 feet; thence macadamized to Conwell Ave., and the remainder re- paired	2,300
Davis Square...	Easterly and...	Southerly sides.	Macadamized. ...	
Glen	Broadway	Webster	Macadamized. ...	700
"	Pearl	Flint	Sidewalks grad- ed, and street macadamized.	300
Herbert	Chester	Day	Graded and mac- adamized.	338
Jaques	Chauncey Ave.	Temple	Filled, graded and macadam- ized	1,190
Mystic Avenue..	Broadway Park	Austin	Widening on southerly side completed. ...	1,900
" " ..	" " ..	Middlesex Ave.	Ballasted and macadamized.	1,000
" " ..	Middlesex Ave.	Boston Line...	Hard-pan and gravel	2,100
Medford	Broadway	Cross	Remacadamized.	500
Newbury	Holland	Cambridge Line	Graded and mac- adamized.	1,260
Poplar	Somerville Ave.	Joy	Filled and graded	600
Summer	Putnam	near Central ...	Macadamized. ...	1,800
"	Belmont	Cedar	Hard-pan and gravel	1,400
"	Cedar	Cherry	Macadamized. ...	450
Somerville Ave..	Prospect	Laurel	Remacadamized.	3,400
Somerville Ave..	Medford	E. Camb. Line..	" ..	2,300
Webster	Franklin	Cross	" ..	1,050

**SIDEWALKS CONSTRUCTED, WHERE THE MATERIALS AND
LABOR WERE FURNISHED BY THE CITY, AND ONE-HALF
OF THE COST WAS ASSESSED UPON ABUTTING ESTATES.**

Street.	From	To	Feet of Edge- stones.	Yards of Brick.
Aldersey	Walnut	Vinal Ave.....	999.7	
Austin	Broadway	Mystic Ave.....	1,540.13	
Concord Ave., south side....	{ Springfield	Prospect..... }	1,544.6	
Concord Ave., north side....				
Davis Square..	{ L. & A. R. R... }	{ Highland Ave. }	342.8	
Glen.....	{ Day	{ L. & A. R. R... }	1,423.4	
"	Broadway	Webster	621.8	
Herbert, south side ...	Pearl	Flint.....		
	Chester.....	Day	338.3	224.72

**SIDEWALKS CONSTRUCTED, WHERE EDGESTONES AND BRICKS
WERE FURNISHED BY THE ABUTTERS.**

For	Street.	Feet of Edgestones.	Yards of Brick.
Quincy A. Vinal.....	Aldersey		22.7
Emeline T. Coles.....	Auburn Ave.....	71.03	
Wm. Daley.....	"	45.52	
Thomas Fortier.....	"	36.79	
E. A. Gillette.....	"	80.15	
E. Kendall.....	"	50.92	
Sarah F. Nash.....	"	40.61	
James C. Stevens.....	"	36.37	
Charles Trull.....	"	39.32	
George E. Turner.....	"	38.59	
Louisa and M. E. Doane...	Austin		26.66
Luke W. Farmer	"		26.66
Geo. H. Harlow	"		26.66
Mark Loughton.....	"		187.19
Emily J. Lund.....	"		100.83
Isaiah W. Nowell.....	"		24.78
H. G. Parker, Trustee....	"		16.66
Charles B. Sanborn.....	"		24.45
John F. Simonds.....	"		24.57
M. M. F. Tompkins	"		42.72
Francis H. Turner	"		27.10
Horace E. Tarbox.....	"		26.66
George D. Wemyss.....	"		33.33
Mary A. Wessells.....	"		31.56
Thomas S. Wentworth....	"		35
Eliza S. Wright.....	"		33.33
John Medina	Broadway and Curtis		209.6
Charles H. Porter....	Franklin		6.4
Rufus A. Junkins.....	Glen		25
Sturtevant Bros	Hawkins		31.5
Alexander Foster.....	Laurel.....	24.67	286.9
Mark Loughton.....	Mystic Ave.....	61.8'	
T. F. McGann.....	Putnam		39.2
Laura A. Haley	Walnut		38.2
Rev. C. T. McGrath	Washington		94.4
John J. Woods.....	"		19

DRIVEWAYS CONSTRUCTED.

FOR	STREET.
Quincy A. Vinal	Aldersey.
Emeline T. Coles	Auburn Ave.
Thomas Geghan	Broadway.
Michael Casey	Franklin Ave.
F. T. Kingman	Highland Ave.
B. P. Lovejoy	" "
A. F. Carpenter	Park.
T. B. Blaikie	Prospect Hill Ave.
E. B. Morgan	Somerville Ave.
Union Glass Co.	Webster Ave.

DRIVEWAYS RECONSTRUCTED.

FOR	STREET.
C. M. Gordon	Cross.
B. H. Weeks	Rush.
J. Frank Miles	Marshall.
John Allen	Pearl.
F. F. Raymond	"
T. N. Snow	"
Fulton O'Brion	Union Square.

CROSSINGS CONSTRUCTED.

Davis Square, from Dover Street to Railroad Depot.
 Franklin Street, from Arlington Street, westerly.
 School Street, across the end of Bradford Avenue.
 Somerville Avenue, across the end of Church Street extension.
 Summer Street, from Harvard Street, northerly.
 Vinal Avenue, from Aldersey Street, westerly.
 Vinal Avenue, from Pleasant Avenue, westerly.
 Walnut Street, across the end of Aldersey Street.

CULVERTS CONSTRUCTED.

Broadway (wooden),	3
Curtis Street (wooden),	1
Medford Street (wooden),	2
Medford Street (stone),	1
Mystic Avenue (wooden),	2
Mystic Avenue (pipe),	1

DANGER SIGNS ERECTED.

Moore Street, corner of Mead Street.

Oxford Street, corner of Central Street.

Summit Avenue, corner of Walnut Street.

STREET SIGNS ERECTED.

Chester Avenue (2),
Greenville Street,
Prospect Hill Avenue,

School Street,
Vernon Street,
Wheatland Street.

EDGESTONES AND PAVING.

Whole number of lineal feet of edgestones set (including 579 feet reset), 7,867; whole number of square yards of brick paving laid (including 511 yards relaid), 2,197; whole number of square yards of stone paving laid (including 489 yards relaid), 3,152.

For the Committee,

ASA DURGIN, *Chairman*,
GEO. I. VINCENT, *Clerk*.

REPORT
OF THE
COMMITTEE ON SEWERS.

CITY OF SOMERVILLE.

IN BOARD OF MAYOR AND ALDERMEN, Jan. 2, 1884.

Report accepted, and referred to the next City Council, to be printed in the Annual Reports of 1883. Sent down for concurrence.

CHARLES E. GILMAN, *Clerk.*

IN COMMON COUNCIL, Jan. 2, 1884.

Concurred in.

DOUGLAS FRAZAR, *Clerk.*

CITY OF SOMERVILLE.

IN COMMITTEE ON SEWERS, Jan. 2, 1884.

To the Board of Aldermen of Somerville:

The following is respectfully submitted as the final report of this Committee for the year 1883 :—

APPROPRIATION,		\$9,600 00
Receipts and credits ; —		
For uncollected bills of		
1882,	\$24 75	
Amount approved in		
labor pay-roll and		
not called for,	1 75	
Catch-basin curbs in		
sidewalks,—received		
credit from sidewalk		
account,	11 60	
Fee for drainage of		
asylum buildings in-		
to Fitchburg Street		
sewer,	50 00	88 10
Value of materials on		
hand Jan. 1, 1883,		312 47
Value of tools and prop-		
erty, Jan. 1, 1883,		289 57
Total credit,		<u>\$10,290 14</u>
Expenditures ; —		
For 13 sewers as per		
table,	10,708 71	
Less assessments,	7,879 90	
Cost to city,		<u>\$2,828 81</u>
Amount carried forward,		\$2,828 81

<i>Amount brought forward,</i>	\$2,828 81	
Less amount with-		
held from con-		
tractor,	\$490 17	
And advertising		
paid for in 1882,	10 80	
	<hr/>	500 97
		<hr/>
		\$2,327 84
10 catch-basins (average \$70.93),		709 31
1 catch-basin in Summer Street,		
near horse-car stables,	117 07	
Less portion of cost paid by		
Railroad Company,	58 53	
	<hr/>	58 54
1 man-hole,		30 54
Cleaning and relaying sewer in Chestnut Street		
and Linehan place,		299 03
Changing grade of a section of the Laurel		
Street sewer,		54 36
Repaving in Union Square over sewer built in		
1882,		55 13
$\frac{5}{8}$ cost of removing deposit from mouth of Bridge		
Street sewer,		1,662 56
Repairing sewers and drains,		93 52
Flushing sewers,		248 76
Cleaning Somerville Avenue sewer east of Med-		
ford Street,		310 60
Cleaning other sewers,		71 15
Examining sewers,		16 62
Repairing catch-basins,		852 06
Changing lines and grades of catch-basins,		44 98
Cleaning catch-basins,		840 23
Clearing mouths of catch-basins,		269 13
Repairing man-holes,		71 38
Changing lines and grades of man-holes,		62 47
Cleaning man-holes,		112 01
Examining man-holes,		1 00
Cleaning ditches,		50 99
Clearing deposit from reservoir in Temple		
Street,		63 00
		<hr/>
<i>Amount carried forward,</i>		\$8,305 21

<i>Amount brought forward,</i>	\$8,305 21
Inspecting sewer built in Evergreen Avenue	
extension by the owners of abutting estates,	13 50
Books and stationery,	35 25
Tools and personal property,	191 30
Repairing tools and property,	24 70
Arranging tools and property,	9 00
Sundry small expenses,	20 68
Abatement of assessments of 1882 and 1883,	6 21
An unpaid bill of 1882 (P. Terry),	16 00
Depreciation in value of materials,	13 94
Depreciation in value of tools and property,	134 12
Value of materials on hand Dec. 31, 1883,	274 21
Value of tools and property on hand	
Dec. 31, 1883,	\$344 75
Less purchases during the	
year, as above,	191 30
	<hr/>
	153 45
Total debit,	<hr/> \$9,197 57
Balance unexpended,	<hr/> \$1,092 57

Bills remain unpaid, as follows:—

Balance favor Richard Falvey, for constructing sewer in Shawmut and Alston Streets, in 1882,	\$99 33
Balance favor Dennis O'Connell, for constructing sewer in Oakland Avenue and School Street, in 1883,	490 17
	<hr/>
	\$589 50

Both of these sums are withheld, awaiting the result of claims for damages on account of personal injuries received by Henrietta G. Stepp, in Shawmut Street, and Edgar F. Shaw, in Oakland Avenue, during the construction of the above-named sewers.

Work has been done for other departments, and credit has been received for the same, as follows :—

For the Board of Health (Health Department Account), a stagnant pool at the lot on Cedar Street where ashes are dumped, has been filled, at a cost of		\$4 38
For the Committee on Public Property (School-house Incidentals Account), the vaults at the Bell school have been repaired and the floors of the water-closets relaid, at a cost of	\$9 55	
Also, the drains at the Highland school have been repaired at a cost of	32 93	
	<hr/>	42 48
For the Committee on Fire Department (Fire Department Account), a new floor has been laid in the reservoir in Union Square, and the chimney of the same has been repaired and supplied with an iron cover, at a cost of	102 96	
Also, iron covers have been placed on the reservoirs in Franklin, Mt. Vernon and Florence Streets, at a cost of	70 35	
	<hr/>	173 31
Total,		\$220 17
In addition to the above, articles have been sold and private work has been done, for which the Treasurer has received payment or credit, as follows :—		
Sold to the Committee on Highways (Highways Account),		6 30
Sold to individuals,		12 00
Work done for individuals,		15 94
		<hr/>
Total,		\$34 24

The only extraordinary expense incurred during the year, was the cost of removing the deposit from the mouth of the Bridge Street sewer. This work was done by the City of Cambridge in the spring, and a bill for $\frac{5}{9}$ of the cost, amounting to \$1,662.56, was forwarded to us, and approved in pay-roll.

Submitted herewith is a schedule of sewers built during the year.

For the Committee,

WILLIAM E. WELD, *Chairman*.

GEO. I. VINCENT, *Clerk*.

SEWERS BUILT IN 1883.

Street.	From	To	Length in Feet.	Cost.	Assessment.	Cost to City.
Boston	Prospect Hill Ave.	Near Greenville St.	379.6	\$471 96	\$400 34	\$71 62
Central	Oxford St.	Highland Ave.	251.0			
Highland Ave.	Central St.	Near Sycamore St.	376.0	944 14	805 05	139 09
Oxford	End of old sewer.	Central St.	79.0			
Chester	Cross St.	Near Medford St.	596.8	794 22	420 85	373 37
Cross	Alston St.	Chester St.	73.2			
Crescent	Washington St.	Near Hadley St.	399.5	526 57	296 74	229 83
Washington	End of old sewer.	Boston line.	11.5			
Cross	"	Southwesterly	48.5	129 43	54 40	75 03
Dover	"	Near Orchard St.	175.0	213 64	205 26	8 38
Elm	"	Northeasterly	301.0	525 01	402 00	123 01
Grant	Jaques St.	Sewall St.	258.5			
Sewall	Grant St.	Temple St.	680.5	2,861 60	1,643 40	1,218 20
Temple	Sewall St.	Near Broadway.	278.3			
Jaques	Wheatland St.	Chauncy Ave.	252.0	659 53	499 44	160 09
Chauncy Ave.	Jaques St.	Southwesterly	227.3			
Joseph	Newton St.	Adrian St.	286.5			
Adrain	Joseph St.	Marion St.	623.0	1,173 20	1,162 85	10 35
Marion	Adrain St.	Near Concord Ave.	127.8			
Moore	End of old sewer.	Near Holland St.	339.2	704 15	500 66	203 49
Oakland Ave.	"	School St.	369.5	1,432.41	1,230 86	201 55
Summer	Near Broadway	Near Maple Ave.	731.8	272 85	258 05	14 80
	Ashland St	Near Cherry St.	211.8			
			7,017.3	\$10,708 71	\$7,879 90	\$2,828 81

SEWERS REBUILT IN 1883.

Chestnut	Linehan Ct.	Near Poplar St.	234.0	\$299 03		\$299 03
Laurel .....	.....Near Summer St.		97.2	54 36		54 36
			331.2	\$353 39		\$353 39

REPORT
OF THE
CITY ENGINEER.

CITY OF SOMERVILLE.

IN BOARD OF MAYOR AND ALDERMEN, Jan. 30, 1884.

Referred to the Committee on Printing, with instructions to print the same in the Annual Reports of 1883. Sent down for concurrence.

CHARLES E. GILMAN, *Clerk.*

IN COMMON COUNCIL, Jan. 30, 1884.

Concurred in.

DOUGLAS FRAZAR, *Clerk.*

CITY OF SOMERVILLE.

CITY ENGINEER'S OFFICE, Jan. 24, 1884.

To His Honor the Mayor and City Council:—

GENTLEMEN:—In accordance with the provision of the city ordinance in relation to city engineering, I herewith present my annual report for the year 1883.

SEWERS.

Seven thousand and seventeen and three-tenths feet of sewers were built during the year, of which 1663.4 feet were of brick and 5343.9 feet of pipe. In these sewers were built thirty-three man-holes.

The following table will show the location, size, length, cost, assessment, etc., of each sewer:—

TABULAR STATEMENT OF SEWERS BUILT IN 1883.

LOCATION.			CONSTRUCTION.						COST.				
Name of Street.	From	To	Built by	Materials.	Size in Inches.	Main holes.	Inlets.	Length in Feet.	Average Cut.	Average Cost per Foot.	Total Cost.	Assess-ment.	Cost to City.
Boston	Prospect Hill Av.	Near Greenville St.	Tim. J. Gunning	Akron pipe.	12	1	19	379.6	9.0	\$1.24	\$471.96	\$400.34	\$71.62
Central	Oxford St.	Highland Ave. . . .	John J. Dorcy . . .	" "	12	2	15	251.0	9.1	1.34	944.14	805.05	139.09
Highland Ave. . . .	Central St.	Near Sycamore St . .	" " " "	" "	12	1	15	376.0					
Oxford	End of old sewer.	Central St.	" " " "	" "	12	..	24	79.0					
Chester	Gross St.	Near Medford St. . .	Chas. A. Mongan . .	" "	12	2	24	596.8	8.2	1.19	794.22	420.85	373.37
Gross	Alston St.	Chester St.	" " " "	" "	12	1	7	73.2	6.5	1.28	526.57	206.74	229.83
Greasant.	Washington St. . . .	Near Hadley St. . . .	" " " "	Portland "	12	3	15	399.5					
Washington	End of old sewer.	Boston Line	" " " "	Brick	18	1	1	11.5					
Gross	Near Pearl St. . . .	Near Flint St.	Richard Falvey . . .	" "	24x28	..	10	48.5	11.9	2.67	129.43	54.40	75.03
Dover	End of old sewer.	" Orchard St.	Sewer Dept.	" "	17x24	..	16	175.0	7.3	1.22	213.64	205.26	8.38
1 Elm	Near Morrison St . .	Northerly	Maurice Buttiner . .	" "	17x24	2	16	179.9	9.6	1.74	525.01	402.00	123.01
2 Elm	End of brk. sewer	Near Chapel St. . . .	" " " "	Akron pipe.	12	..	8	121.1					
3 Grant.	Jacquies St.	Sewall St.	" " " "	Brick	30	1	19	255.5					
4 Sewall	Grant St.	Temple St.	" " " "	" "	18x27	1	47	680.5	9.6	2.35	2,861.60	1,643.40	1,218.20
5 Temple	Sewall St.	Near Broadway . . .	" " " "	Akron pipe.	12	2	22	278.3					
Jacquies	Wheatland St. . . .	Chauncey Ave. . . .	John J. Dorcy . . .	" "	12	..	12	252.0					
Chauncey Ave. . . .	Jacquies St.	Southwesterly . . .	" " " "	" "	12	2	15	227.3	4.9	1.13	1,173.20	1,162.85	10.35
Joseph	Newton St.	Adrian St.	Chas. A. Mongan . .	" "	12	2	14	286.5					
Adrian	Joseph St.	Marion St.	" " " "	" "	12	3	40	623.0					
Marion	Adrian St.	Near Concord Ave. .	" " " "	" "	12	1	8	127.8	8.2	2.08	704.15	500.66	203.49
Moore	End of old sewer	" Holland St.	Maurice Buttiner . .	" "	12	2	33	339.2					
Oakland Ave.	" " " "	School St.	Dennis O'Connell . .	Brick	17x24	1	14	309.5					
School	Oakland Ave.	Evergreen Ave. . . .	" " " "	Akron pipe.	15	2	9	244.0	10.2	1.37	1,432.41	1,230.86	201.55
"	Evergreen Ave. . . .	Near Maple Ave. . . .	" " " "	" "	12	1	8	165.5					
"	Oakland Ave.	" Broadway	" " " "	" "	12	1	16	319.3					
Summer	Ashland St.	" Cherry St.	Chas. A. Mongan . .	" "	12	1	12	211.8	8.7	1.29	272.85	258.05	14.80
								7017.3			\$10,708.71	\$7,879.90	\$2,828.81
REBUILT.													
Chestnut	Linchan Ct.	Near Poplar St. . .	Sewer Dept.	Akron pipe.	12	1	16	234.0	5.9	1.28	299.03	..	299.03
Laurel . . . . .	.. . . . Near Sum	mer St.	Sewer Dept.	Vitrified pipe	12	..	3	97.2		0.56	54.36	..	54.36
								331.2			\$353.39		\$353.39

17 cubic yards of rock. 3 130 cubic yards of rock. 6 46.6 cubic yards of rock. 7 20 cubic yards of rock.
 2 15 cubic yards of rock. 4 78 cubic yards of rock. 9 66 cubic yards of rock.
 Total length of sewers built previous to Jan. 1, 1883 175,436.1 feet.
 Total length of sewers built during the year 1883 7,017.3 "
 Total length of sewers in city, Jan. 1, 1884 182,453.4 feet, or 34.5 miles.

LAUREL STREET SEWER.

Ninety-seven and two-tenths feet of the Laurel Street sewer were relaid at a lower grade to accommodate the block of brick buildings recently constructed on the corner of Summer Street. This is a pipe sewer, laid in 1869, and was found in good condition and nearly all the pipe relaid.

CHESTNUT STREET SEWER.

Two hundred and thirty-four feet of the Chestnut Street sewer were rebuilt. This is a pipe sewer, laid in 1869, and found badly cracked, defective in grade, and nearly full of deposit. The pipe was all removed and Akron pipe substituted.

PRIVATE DRAINS.

Two hundred and forty-eight permits were issued for laying private drains, 232 for new connections and 16 for repairs. The locations of these drains have been recorded in this office, and where practicable have been shown on the sewer plans.

MAN-HOLES.

One man-hole was built on the Harvard Street sewer near Summer Street. I would renew my recommendation of last year that man-holes be built at frequent intervals on our old sewers.

CATCH-BASINS.

Eleven catch-basins were constructed during the year, ten at an average cost of \$70.93, and one at a cost of \$117.07. The work of substituting iron catch-basin covers for the wooden covers is now nearly complete. During the last few years this item has very materially increased the cost of repairing catch-basins.

CRAIGIE BRIDGE SEWER OUTLET.

The accumulation of sewage near the sewer outlet under Craigie bridge and under the adjoining wharves, was removed by the City of Cambridge at a cost of \$2,992.60, five-ninths of which was paid by this city.

SIDEWALKS.

The following table will show the sidewalks laid during the year:—

Street.	Side.	From	To	Materials.	Length of walk in feet.	Cost.
Aldersey . .	Both	Walnut St.	Vinal Ave .	Gravel and edgestone,	1,026	\$680 42
Austin . . .	Both	Broadway .	Mystic Ave .	Gravel and edgestone,	1,420	1,109 00
Concord Ave.	North . . .	Newton St.	Marion St .	Gravel and edgestone,	573 }	981 68
Concord Ave.	South . . .	Prospect St.	Spri'gfi'ld St	Gravel and edgestone,	975 }	
Davis Square.	E. and W .			Gravel and edgestone,	235	235 52
Glen	Both	Broadway .	Webster St .	Gravel and edgestone,	1,410	974 94
Glen	Both	Pearl St . .	Flint St . .	Gravel and edgestone	620	559 54
Herbert . . .	Southwest .	Chester St .	Day St . . .	Brick and edgestone,	323	331 04
Total . . .	. . . . .	. . . . .	. . . . .	. . . . .	6,582	\$4,922 14

The Board of Aldermen assessed one-half the cost on the abutters.

STREETS.

Evergreen Avenue, from School Street to Thurston Street, 469.6 feet in length and 40 feet wide, was the only street accepted during the year.

STREET NUMBERING.

Six streets have been numbered during the year and plans prepared for several others. There are many houses in the city to which the owners or occupants have neglected to affix the proper numbers, and in some cases the numbers on the houses are incorrect, causing much confusion. I would recommend that the chief of police be requested to enforce the ordinance, and compel parties to affix the proper numbers.

BRIDGES.

The wooden bridge over the Boston and Lowell Railroad at Cross Street, has been partly renewed, the abutments repaired, and new fences built on each side: that over the same railroad at School Street has been rebuilt, widened on the easterly side, the abutments repaired, and fences built on each side.

The bridges over the Boston and Lowell Railroad at Cedar Street and Broadway are in fair condition: that at Central Street is in good condition.

The bridges over the Fitchburg Railroad are in the same condition as mentioned in my last annual report.

The stone-arch bridge on Broadway over Alewife Brook, and the wooden bridge on Boston Avenue over the Mystic River, are both in good condition.

The draw on the Middlesex Avenue bridge over Mystic River has been planked; the bridge will need more extensive repairs during next season.

SURVEY OF THE CITY.

An appropriation of three hundred dollars was made to continue the survey of the city; a large tract including a portion of the southerly slope of Central Hill was surveyed and plotted, also a portion of the East Somerville section completed.

The maps to be made from this survey will show the owner, area and dimensions of each lot, all houses, sewers, water-pipes, hydrants, street lights, crossings, catch-basins, etc., and will be of great value to every department of the city.

I would recommend that a larger appropriation be made for this work, in order that it may be completed at an early day.

HEALTH.

At the request of the Board of Health, all the school-rooms in the city have been measured, the cubic contents computed, the ventilators measured, and other information obtained for the use of the Board in making their report on the condition of the school buildings.

STREET LIGHTS.

A map of the city showing all street lights was completed in March last.

WATER WORKS.

A large map showing all water mains was made for use in the office of the Water Registrar at Charlestown.

EXPENSES.

The expenses of the department for the year 1883, were as follows : —

Salary of city engineer, including maintenance of a team,	\$2,000 00
Salaries of assistants,	1,199 31
Salaries of assistants for survey of city,	299 31
Repairing instruments, stationery, spikes, tools, fares, etc.,	199 67
	<hr/>
Total expense of department,	\$3,698 29

Respectfully submitted,

GEORGE A. KIMBALL,
City Engineer.

REPORT
OF THE
COMMITTEE ON FIRE DEPARTMENT.

CITY OF SOMERVILLE.

IN BOARD OF MAYOR AND ALDERMEN, Jan. 2, 1884.

Report accepted and referred to the next City Council to be printed in the Annual Reports of 1883. Sent down for concurrence.

CHARLES E. GILMAN, *City Clerk*.

IN COMMON COUNCIL, Jan. 2, 1884.

Concurred in.

DOUGLAS FRAZAR, *Clerk*.

CITY OF SOMERVILLE.

IN COMMITTEE ON FIRE DEPARTMENT, Jan. 2, 1884.

To the City Council of Somerville:—

The following is the final report of this Committee for the year 1883 :—

A full statement of the work done by the department, and of the improvements which have been made in its buildings and equipment, may be found in the Annual Report of the Chief Engineer; and he also makes certain recommendations, which are fully endorsed by this committee, with a view to the still further increase of the department's efficiency and usefulness.

The following is a condensed statement of receipts and expenses for the year ending Dec. 31, 1883 :—

FIRE DEPARTMENT ACCOUNT.

APPROPRIATION,	\$22,000 00	
RECEIPTS AND CREDITS : —		
For articles sold,	\$179 30	
Bill approved and charged to the account in 1882, and credited back this year because the party could not be found,	90	
	<hr/>	180 20
Total credit,		<hr/> \$22,180 20
EXPENSES :—		
For salaries of permanent men,	\$8,590 00	
“ “ call men,	4,585 50	
“ “ substitute drivers	292 50	
Repairs and improvements of ap- paratus,	411 64	
<i>Amounts carried forward,</i>	<hr/> \$13,879 64	<hr/> \$22,180 20

<i>Amounts brought forward,</i>	\$13,879 64	\$22,180 20
Repairs and improvements of buildings and furniture,	1,248 07	
Maintenance and extension of the Fire Alarm Telegraph (includ- ing the cost of 2 new boxes and 2 indicators),	1,297 03	
Repairing hose,	133 38	
Grain,	589 80	
Hay and straw,	851 95	
Fuel,	609 64	
Supplies,	315 08	
Horse-shoeing,	262 20	
Harnesses and repairs of same,	269 64	
One new horse, \$300 00		
Less one old horse sold, 50 00		
	<hr/> 250 00	
Horse-doctoring and medicine,	31 20	
Water,—for hydrants, \$1,428 00		
“ houses, 110 00		
	<hr/> 1,538 00	
Gas,	238 36	
Ice,	29 00	
Insurance,	10 00	
Washing and ironing,	133 90	
Repairing reservoirs,	174 81	
Incidentals (including expense of testing new steamer),	265 70	
Total expense,	<hr/> 22,127 40	
Balance unexpended,		<hr/> \$52 80

NEW STEAM FIRE ENGINE ACCOUNT.

APPROPRIATION,		\$4,000 00
EXPENDED :—		
For a Silsby, third size, Rotary Engine and Heater,	\$3,825 00	
Traveling expenses,	47 00	
	<hr/>	
Total expenditure,		3,872 00
		<hr/>
Balance unexpended,		\$128 00
		<hr/>

NEW FIRE-EXTINGUISHERS ACCOUNT.

APPROPRIATION,		\$300 00
EXPENDED :—		
For 4 Harkness Extinguishers,	\$200 00	
1 compressor,	20 00	
43 gallons compound,	43 00	
1 barrel,	1 50	
	<hr/>	
Total expenditure		264 50
		<hr/>
Balance unexpended,		\$35 50
		<hr/>

For the Committee,

THOS. R. ROULSTONE, *Chairman.*
GEO. I. VINCENT, *Clerk.*

REPORT
OF THE
CHIEF ENGINEER OF FIRE DEPARTMENT.

CITY OF SOMERVILLE.

IN BOARD OF MAYOR AND ALDERMEN, Feb. 13, 1884.

Referred to the Committee on Printing, to be printed with the Annual Reports for 1883. Sent down for concurrence.

CHARLES E. GILMAN, *Clerk.*

IN COMMON COUNCIL, Feb. 14, 1884.

Concurred in.

DOUGLAS FRAZAR, *Clerk.*

CITY OF SOMERVILLE.

SOMERVILLE, MASS., Dec. 30, 1883.

To His Honor the Mayor and City Council:—

GENTLEMEN,—I herewith submit to you a report of the operation of the Fire Department for the year ending December 31, 1883.

In addition to the usual details, this report contains an account of the number of alarms, with the causes thereof, the amount of loss, insurance, and insurance paid, as near as can be ascertained, with some recommendations which I trust will be found of sufficient interest and importance to receive your favorable consideration.

NUMBER OF BOX ALARMS.

The Department has been to answer fifty-seven alarms during the year.

The causes of alarms were as follows:—

Burning of grass	3
Defective chimney flues	2
Sparks from locomotive engine	3
Oil stoves	3
Burning of beds	6
Burning of rubbish in yards	3
Breaking of kerosene lamps	3
False alarms	6
Sparks on roof from chimney	5
Incendiary	3
Children playing with matches	3
Bursting of water pipe	1
Thawing out a water service pipe	1
Burning of hatching incubator	1
Fire-crackers on roof	1
Supposed fire in church	1

Carried forward.

<i>Brought forward,</i>	45
Hot coals dropping from stove	2
Blast of fire from furnace	1
Neglect to attend fires in smoke-house	1
Unknown	1
Fumigating hen-house	1
Fires in Cambridge	3
Fire in Medford	1
Fires in Boston	2
Total	57

The loss, insurance and insurance paid, as near as can be ascertained, were —

Loss,	\$7,510 00
Insurance,	18,500 00
Insurance paid,	6,881 00
Net loss to property holders,	629 00

Our department has rendered assistance out of the city three times and has received assistance once.

MANUAL FORCE.

The manual force of the Department remains the same as last year; viz.,—

1 Steamer Company, number of men	14
4 Hose Companies, 10 men each	40
1 Chief Engineer	1
1 Assistant Engineer	1
1 Hook and Ladder Company	15
Total number of men	71

APPARATUS.

The apparatus in service in the Department consists of two steam-fire-engines, five horse-hose-carriages, one hook-and-ladder-truck.

In addition to the above, there are one hook-and-ladder-truck, one two-wheel hand-hose-carriage, and one horse-hose-carriage.

The last-mentioned is hardly worth enumerating as a piece of fire-apparatus, as it is totally unfit for fire-service.

I desire to again call your attention to the importance of adopting some plan whereby the Department can be supplied with ladders at the first instance of a fire. We frequently work at a disadvantage when there is a fire in a section of the city remote from where the ladder truck is located. I renew my recommendations of last year that the spare hose-carriage be rebuilt and fitted to carry both *ladders* and *hose*. If this plan is adopted there will not be any increase in the running expenses of the Department, while if the spare truck is put in service it will necessitate the keeping of a pair of horses, a permanent driver, and certainly a few call ladder-men, involving probably an annual increase of \$1,500, in the running expense.

Owing to the large number of telephone-wires which interfere with the raising of spliced ladders, I recommend the purchase of a fifty-foot Bangor telescope ladder for Hook and Ladder No. 1.

The new steam-fire-engine built by the Silsby manufacturing Company, and delivered to the city last June, has thus far proved an excellent engine; although in service a number of times, there has been but one severe test of her ability to do heavy work, and her three hours performance at the burning of Stickney & Poor's factory was such as to receive the praise of the chief officers of the Boston Fire Department and the owners of the property. The Engine has been drawn 60½ miles and has worked 25 hours.

HOSE.

There is in the Department 6,950 feet of hose; 5,550 feet of which is cotton hose, rubber-lined, and 1,400 feet of leather hose; 900 feet of old hose has been transferred to the Water and Sewer Departments.

There was no new hose purchased last year. I recommend that 1,000 feet be bought this year, that there may be a sufficient quantity on hand to replace that which has been in service, as it is hurtful to hose to have it remain on carriages without being thoroughly dried so as to prevent mildew.

FIRE ALARM TELEGRAPH.

This very important branch of the Department has continued to work satisfactorily. Three new alarm-boxes have been added, viz. : 36, 43, and 229,—the last-named being placed in the office of the Eagle Shade Roller Company at their own expense. This box is in a combustible neighborhood, and is available for use, both night and day, for any fire in the vicinity. The three circuits of wire and the apparatus connected therewith, have received watchful attention. The placing of the fire-alarm wires upon the cross-arms of the telephone-poles has thus far worked satisfactorily. It is easier to detect trouble, and less dangerous for our men to have the lines of wire placed on poles than on the roofs of buildings. Crooked and unsightly poles have been replaced by new ones of such a kind as to be entirely unobjectionable to the abutters. New wires have been run to replace those that have become weakened by age, and considerable work will be necessary the coming summer for the same purpose. There is not a sufficient alarm in the Spring Hill district to arouse the call-members of the Department. A remedy for this would be the placing of a striker on the bell of the Spring Hill Baptist church, and the children of that district would then hear the storm-signal for the omission of any session of the public schools. There are now twenty-five (25) miles of wire, thirty-four alarm-boxes, five bell-strikers, four large gongs, and nine small gongs, and a battery of 180 cups, 125 of which are known as the “ Hill ” battery, and 60 as the “ Serson-Kauffer ” battery ; the latter was placed on one of the circuits as an experiment on July 15, 1883, and has thus far proved satisfactory.

The locations of fire alarm-boxes are as follows, viz. : —

Box.

12. Junction Somerville Avenue and Linwood Street.
112. John P. Squire & Co.
13. McLean Asylum.
113. F. R.R. Freight Yard.
14. Cross Street, opposite Tufts Street.
15. Washington, corner Myrtle Street.
16. Webster Street, Hose House No. 1.
17. Lincoln, corner Perkins.
18. Broadway, corner Union.

- 21. Medford, corner South.
- 23. Lincoln & Chamberlain's, South Street.
- 24. Webster Avenue School-House.
- 25. Washington Street Hose House No. 3.
- 26. Concord Square, corner Springfield.
- 27. Junction Summer and Bow.
- 28. Somerville Avenue, corner Laurel.
- 227. American Tube Works.
- 229. Eagle Shade Roller Co.
- 29. Washington, corner Dane.
- 31. Highland Avenue, corner Walnut, Engine No. 1.
- 32. Bonair, opposite Dana.
- 34. Marshall Street, Hose House No. 2.
- 35. Junction Broadway and Main.
- 36. Central, corner Vernon.
- 38. Cedar, corner Clyde.
- 4. Broadway, corner Elm.
- 41. Summer, corner Cedar.
- 42. Beacon, corner Kent.
- 43. Holland, between Wallace and Irving.
- 45. Summer, opposite Spring.
- 46. Elm House.
- 47. Highland Avenue, corner Grove, Hose House No. 4.
- 48. Broadway, corner Curtis.
- 49. College Hill.
- 55. No School.

WATER SUPPLY.

By the report of the Superintendent of Water Works for the year 1882, we learn that there are 294 hydrants where a supply of water can be obtained for fire purposes. As the water-pressure in the lower parts of the city is only fifty pounds, and continues to grow less, until at Winter Hill the pressure is but five pounds, it is important that hydrants should be placed at frequent intervals, in order that fires may be reached with short lines of hose; because by the running of long lines of hose the pressure is so reduced as to make the stream non-effective. For information the following illustration of tests of water-pressure is here given:—

If, from a hydrant of thirty-five pounds' pressure, we run a line of

hose 300 feet, and discharge the water through a one-inch nozzle, the horizontal distance reached will be seventy-two feet, and the vertical height reached, forty-five feet; if the line is increased to 1,000 feet the horizontal distance reached will be forty-nine feet, and the vertical height twenty-two feet, showing a loss by friction in the horizontal and vertical distances of twenty-three feet, and these distances can only be reached when the air is still and there is no wind to impede the stream. It must be borne in mind that there is always a strong wind drawn to and around every building after the fire gets outside of it, and unless the firemen can reach the fire in season to take the stream inside of the building, they cannot do effective work. I recommend that the old flush-hydrants be replaced with post-hydrants, and that new hydrants be placed as follows: —

On Beacon street opposite Charles River Railroad Stables.

On Summer “ “ “ “ “ “

On Dover “ “ Union “ “

On Hawkins Court.

To provide for an emergency, such as the breaking of a pipe, whereby we should be deficient of a supply of water, it was considered proper to put the reservoirs in condition for immediate use; accordingly some of them have been provided with iron covers which can be readily removed in cold weather and access obtained to the storage basins, which was not the case before, as the plank covers could not be removed in the winter season

The reservoirs are located as follows: —

Union Square, near flagstaff.

Summer Street, opposite Harvard.

Broadway, opposite Central.

Temple Street, 200 feet from Broadway.

Franklin Street, opposite Webster.

Florence Street, 100 feet from Pearl.

Mt. Vernon Street, 100 feet from Broadway.

BUILDINGS.

The several buildings occupied by the Department remain the same, in their exterior appearance, as last year. The houses of Steamer 1 and Hose 4 have both required painting for some years, and this work ought not to be delayed beyond the coming spring. The interior of Hose-House No. 2 has been painted and put in complete order. At the Steamer House the bed-rooms have been papered, new bedsteads and bedding have been furnished, and a sliding pole has been put up to enable the men to reach the engine-room quickly. A new floor should be built in the stable of this house as the present one is nearly worn out. The battery of the fire-alarm-telegraph is in a room underneath the stable, and the droppings from the stable above have necessitated the building of a roof to protect the battery-jars from pollution thereby. New beds have been furnished for the Hook and Ladder House and Hose-Houses Nos. 1 and 3, and we now have two men in each house at night, which is an excellent arrangement, as the driver is sure of one man to assist him.

In closing this report, I desire to express to His Honor the Mayor and the City Council, my sincere thanks for their cordial support in all things appertaining to the welfare of the Department, and to the Committee on Fire Department my grateful thanks are due for their coöperation in the furnishing of the necessary supplies and apparatus to properly equip the Department for service. I also express my gratitude to the officers and members of the force for their cheerful compliance at all times with orders, as evinced in their united and successful efforts to extinguish fires.

Respectfully submitted,

JAMES R. HOPKINS,

Chief of Fire Department.

REPORT
OF THE
COMMITTEE ON PUBLIC PROPERTY.

CITY OF SOMERVILLE.

IN BOARD OF MAYOR AND ALDERMEN, Jan. 2, 1884.

Report accepted and referred to the next City Council, to be printed in the Annual Reports of 1883. Sent down for concurrence.

CHARLES E. GILMAN, *Clerk*.

IN COMMON COUNCIL, Jan. 2, 1884.

Concurred in.

DOUGLAS FRAZAR, *Clerk*.

CITY OF SOMERVILLE.

To the City Council of Somerville:—

The Committee on Public Property presents the following final report for the year ending Dec. 31, 1883.

The receipts and expenditures have been as follows:—

POLICE STATION INCIDENTALS ACCOUNT.

APPROPRIATION,	\$1,800 00	
RECEIPTS :—		
For hall rent,	943 50	
	<hr/>	
Total credit,		\$2743 50
EXPENDITURES :—		
For janitor's salary,	\$750 00	
Janitor's substitute in vacation,	14 00	
Gas,	246 80	
Gasoline,	180 00	
Water (being for the year 1882 and $\frac{3}{4}$ of the year 1883),	19 67	
Fuel,	392 77	
Insurance,	20 00	
Repairs and improvement of build- ing and furniture,	720 42	
Incidental expenses,	36 13	
	<hr/>	
Total expenditure,		2,379 79
		<hr/>
Balance unexpended,		\$363 71
		<hr/>

PUBLIC PARK MAINTENANCE ACCOUNT.

Expenditures (for three months),		
for pay of foreman,	\$180 00	
Additional labor,	15 50	
	<hr/>	
Total expenditure,		<u>\$195 50</u>

SCHOOL-HOUSE INCIDENTALS ACCOUNT.

APPROPRIATION,	\$7,000 00	
RECEIPTS :—		
For hall rent,	\$135 50	
Articles sold,	36 50	
	<hr/>	
	172 00	
	<hr/>	
Total credit,		\$7,172 00
EXPENDITURES :—		
For improvements,	\$4,822 74	
Repairs and furniture,	5,056 56	
Rent (Tufts Street school, including last quarter of 1882),	250 00	
Gas (high-school hall),	106 93	
Insurance,	100 20	
Trees,	82 93	
Fire-extinguisher for high-school hall,	50 00	
Carriage hire for annual inspection,	5 00	
	<hr/>	
Total expenditure,	\$10,474 36	
Less collections for $\frac{1}{2}$ cost of division fences at Franklin and Prescott schools,	73 50	
	<hr/>	
Net expenditure,		<u>10,400 86</u>
Excess of expenditures,		<u>\$3,228 86</u>

The following is a statement of expenses at each school-house :—

REPORT OF THE COMMITTEE ON PUBLIC PROPERTY. 279

BEACH STREET.

Repairs,		\$378 83
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L. V. BELL.

Repairs and furniture,		265 56
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BENNETT.

Repairs,	\$413 89	
Trees,	13 75	
	<hr/>	427 64

BRASTOW.

Repairs and furniture,	\$102 27	
Trees,	13 93	
	<hr/>	116 20

CEDAR STREET.

Repairs,		116 40
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EDGERLY.

Repairs and furniture,		325 30
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FORSTER.

Insurance,	\$40 20	
Improvement of water-closets and basement,	581 66	
New boilers and additional heating apparatus,	1,315 00	
Constructing and furnishing two new school-rooms in third-story,	2,017 38	
Ordinary repairs and furniture,	376 81	
	<hr/>	4,331 05

FRANKLIN.

Repairs and furniture,	\$365 05	
Less $\frac{1}{2}$ cost of division fence paid Cambridge Railroad Company,	57 50	
	<hr/>	307 55

<i>Amount carried forward,</i>		<hr/> \$6,268 53
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Amount brought forward, \$6,268 53

HARVARD.

Repairs, 94 41

HIGH.

Gas in hall,	\$106 93	
Insurance,	20 00	
Fire-extinguisher for hall,	50 00	
Repairs and furniture,	727 02	
	<hr/>	903 95

HIGHLAND.

Trees,	\$24 00	
Improving water-closets,	247 26	
Re-arranging heating apparatus, cold-		
air boxes and drains,	661 44	
Repairs and furniture,	170 69	
	<hr/>	1,103 39

JACKSON.

Trees,	\$19 25	
Repairs and furniture,	134 81	
	<hr/>	154 06

LINCOLN.

Trees,	\$12 00	
Repairs and furniture,	363 36	
	<hr/>	375 36

MORSE.

Repairs and furniture, 394 05

PRESCOTT.

Insurance,	\$40 00	
Repairs and furniture,	\$259 52	
Less one half cost of divi-		
sion fence paid by Flor-		
ence St. Union Stable		
Co.,	16 00	
	<hr/>	243 52
	<hr/>	283 52

Amount carried forward, \$9,577 27

REPORT OF THE COMMITTEE ON PUBLIC PROPERTY. 281

Amount brought forward, \$9,577 27

PROSPECT HILL.

Repairs, 241 92

SPRING HILL.

Repairs, 56 65

TUFTS STREET.

Rent (including the last quarter of 1882),	\$250 00	
Repairs,	25 36	
	<hr/>	275 36

UNION.

Repairs, 135 60

WEBSTER.

Repairs and furniture,	109 06	
	<hr/>	\$10,395 86
Carriage hire,	5 00	
	<hr/>	\$10,400 86
	<hr/>	<hr/>

EDGERLY SCHOOL-HOUSE ADDITION ACCOUNT.

APPROPRIATION : —

Balance from the year 1882,	\$1,479 66	
Appropriated in 1883,	610 00	
Total credit,	<hr/>	\$2,089 66

EXPENDITURES : —

To Mead, Mason & Co., carpenters,		
balance of account,	2,024 16	
Mr. Mullen, for ventilating-pipe,	8 00	
S. D. Kelley, for architect's ser-		
vices, balance of account,	50 00	
Total expenditure,	<hr/>	2,082 16
	<hr/>	<hr/>
Balance unexpended,		\$7 50
		<hr/>

MISCELLANEOUS ACCOUNT.

EXPENDITURES : —

For City Hall expenses,—

Gas,	\$341 32
Fuel,	251 45
Ice,	50 00
Repairs and furniture,	214 58
Incidentals,	122 19

\$979 54

For ringing bells,

18 00

Repairing flag-staff, Union Square,

78 60

Painting flag-staff and fence on

Central Hill Land,

31 50

Hoisting and lowering flag-staffs,

45 67

Pump in Union Square,

51 54

Preparing cemetery for Memorial

Day,

12 00

Preparing ward-rooms for caucuses

and elections,

12 50

Total expenditure,

\$1,229 35

The Edgerly School-house addition was completed early in the year, and the total cost of this improvement is as follows :—

Expended in 1882, as per detailed statement in last

Annual Report,

\$15,520 34

Expended the present year as hereinbefore stated,

2,082 16

Total cost,

\$17,602 50

As will be seen by the foregoing statement of expenditures from School-house Incidentals Account, a considerable sum has been paid from that account during the year for improvements of school property.

At the Forster school, that part of the hall in the third-story which remained undivided has been made into two school-rooms with a movable partition between, so that, when desirable, they may be used as one room ; the stairways leading to the third story have been moved from the end to the middle of

the building, and an office for the master and suitable dressing-rooms have been provided. A new boiler with additional heating apparatus has also been furnished, and the chimney has been enlarged. In the basement, the water-closets and their approaches have been improved, so as to ensure good light and ventilation and freedom from offensive odors. This work has cost, as shown above, \$3,914.04.

At the Highland school, an outlay of \$908.70 has been made for improvements of the heating apparatus and water-closets; making the amount of extraordinary expenses at these two school-houses, \$4,822.74.

An improvement has just been completed at the High school-house, which must be paid for the coming year, as it was not finished in season to have the bill approved in a pay-roll of the year 1883. The platform in the hall has been made smaller and moved forward, and two new school-rooms have been constructed in the rear of the platform and across the end of the building toward Highland Avenue. This will cost \$725.00, as per contract with T. B. Blaikie & Son. Most of the furniture which will be required in these rooms is already provided as the hall has been used for school-purposes since the early part of the year.

Particular attention has been given to the wooden school-houses, and several of them, which for some time have needed repairs, have been put in good order.

On the first of April, the care of the lamps on the Public Park was transferred to the Committee on Fuel and Street Lights, and the management of the Park in all other respects was placed in the hands of the Committee on Highways; it being the general opinion that the Highway Department, with all its facilities, could take care of the Park more economically than it could be done by this committee.

For the Committee,

J. FRANK WELLINGTON, *Chairman.*

GEO. I. VINCENT, *Clerk.*

REPORT

OF THE

COMMITTEE ON FUEL AND STREET LIGHTS.

CITY OF SOMERVILLE.

IN BOARD OF MAYOR AND ALDERMEN, Jan. 2, 1884.

Report accepted and referred to the next City Council, to be printed in the Annual Reports of 1883. Sent down for concurrence.

CHARLES E. GILMAN, *Clerk*.

IN COMMON COUNCIL, Jan. 2, 1884.

Concurred in.

DOUGLAS FRAZAR, *Clerk*.

CITY OF SOMERVILLE.

IN COMMITTEE ON FUEL AND STREET LIGHTS, Dec. 31, 1883.

To the City Council of Somerville:—

The Committee on Fuel and Street Lights submits the following final report:

Receipts and expenditures for the year ending December 31, 1883:—

SCHOOL FUEL ACCOUNT.

APPROPRIATION, \$5,000 00

EXPENDITURES:—

For fuel to Beach Street School, \$117 58

Bell	“	417 20
Bennett	“	170 87
Brastow	“	91 82
Cedar Street	“	31 55
Edgerly	“	590 00
Forster	“	553 20
Franklin	“	232 69
Harvard	“	14 03
High	“	470 07
Highland	“	578 61
Jackson	“	222 23
Lincoln	“	153 16
Morse	“	299 05
Prescott	“	467 31
Prospect Hill	“	199 31
Tufts Street	“	50 63
Union	“	20 24
Webster	“	174 94

Total for fuel,	—————	\$4,854 49
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<i>Amounts carried forward,</i>	\$4,854 49	\$5,000 00
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<i>Amounts brought forward,</i>	\$4,854 49	\$5,000 00
For advertising for proposals,	\$26 58	
Order book,	8 50	
	<hr/>	35 08
Total expenditure,		<hr/> 4,889 57
Balance unexpended,		<hr/> <hr/> \$110 43

STREET LIGHTS ACCOUNT.

APPROPRIATION,	\$7,500 00	
RECEIPTS : —		
For new street lamps		
erected (9@ \$20),	\$180 00	
New street-lamp erected		
in 1881,	18 00	
Repairs of street-lamps		
damaged by teams,	34 96	
	<hr/>	232 96
Total credit,		<hr/> \$7,732 96
EXPENDITURES : —		
For gas ; to Charlestown Gas		
Co.,	\$1,615 33	
“ Cambridge Gas		
Light Co.,	1,905 35	
	<hr/>	\$3,520 68
Lighting and care of lamps : —		
To Hugh Black-		
well,	\$1,958 50	
“ Globe Gas Light		
Co.,	178 12	
	<hr/>	2,136 62
New street lamps,	212 61	
Repairs of street lamps,	483 07	
Supplies (naphtha, alco-		
hol, etc.),	192 07	
New attachments for oil-		
lamps,	199 50	
Changing oil-lamps to		
gas-lamps,	40 30	
	<hr/>	
<i>Amounts carried forward,</i>	\$6,784 85	<hr/> <hr/> \$7,732 96

<i>Amounts brought forward.</i>	\$6,784 85	\$7,732 96
Resetting lamp-posts on account of changing grades of streets,	20 85	
Moving street-lamps,	20 02	
Street-signs,	19 70	
Incidentals (printing and advertising),	18 00	
	<hr/>	
Total expenditure,		6,863 42
		<hr/>
Balance unexpended,		\$869 54
		<hr/>

PUBLIC PARK MAINTENANCE ACCOUNT.

EXPENDITURES : —

For lighting and care of lamps,	\$35 00	
Oil,	8 26	
Repairing lamps,	2 00	
	<hr/>	
Total expenditure,		\$45 26
		<hr/>

The fuel has been furnished by W. M. Hadley under two contracts, the first of which expired July 1, and the second covers the year ending July 1, 1884. The prices in the first contract were \$5.35 per ton for furnace, egg and stove coal, \$9.00 per cord for hard wood, and 6.25 per cord for soft wood. In the present contract the prices are \$5.70 per ton for stove, \$5.60 for egg, and \$5.55 for furnace coal, \$8.50 per cord for hard wood, and \$6.00 per cord for soft wood.

At the beginning of the year the Globe Gas Light Company's attachments were used in the oil or naphtha street-lamps, and the city paid said company for lighting and taking care of them and for the naphtha burned, \$1.75 per lamp per month. In the middle of February these attachments were removed, and the lamps were supplied with the "Eclipse" attachments at a cost of \$3.50 each, and since that time these lamps have been lighted and taken care of by the same contractor who lights the gas lamps, and at the same price; the naphtha being furnished by the city.

In the months of January and February the price paid for the

lighting and care of the gas lamps was fifty cents per lamp per month. March 1st, a contract for one year was made with Hugh Blackwell for the lighting and care of all the street lamps, both gas and oil for the sum of two cents per lamp per night, but as it afterward appeared that Mr. Blackwell signed the contract under the impression that he was to light the lamps twenty nights each month, the rate of compensation was increased, by order of the City Council, to forty cents per lamp per month for the entire period of the contract.

The price paid for gas in January, February and March, was \$2.25 per thousand feet, but on the first of April a reduction was effected to \$2.15 per thousand, which is the price now paid.

Nine new lamps have been erected during the year, and the City Treasurer has received for each of them, the sum of twenty dollars from the petitioners. The cost of new street lamps (exclusive of street signs), has been \$210.61; but this amount includes the sum of \$22.73 for the lamp on the fountain in Union Square, which was erected at the close of the year 1882, leaving \$187.88 for the lamps erected this year, and to this sum must be added about \$15.00 for piping two of them, the bill of which has not yet been approved, making the total cost of the nine new lamps about \$202.88, or an average of \$22.54 each.

The system of lighting has been the same as in former years; viz. to light until twelve o'clock every cloudy night, or when there is no moon.

The following is a statement of the street lamps in the city:—

	GAS LAMPS.		Naphtha Lamps.	Total.
	Charlestown Gas.	Cambridge Gas.		
Lamps in the city January 1, 1883	159	185	55	399
Lamps erected during the year	3	3	3	9
Present number	162	188	58	408

April 1st, the lighting and care of the lamps on the public park on Broadway, was placed in charge of this Committee, and the care of the park in all other respects was placed in charge of the

Committee on Highways. It was thought that these lamps might be lighted by the same party who should light the street lamps and in connection with that work ; but this has proved impracticable from the fact that they can not be approached with a horse and wagon, and as it is undesirable to divide the management of a single appropriation between two committees unless some advantage is to be gained, we would recommend that hereafter the lighting and care of the lamps on the park be in charge of the Committee on Highways.

We regret to report that on the 28th of the present month Mr. Hugh Blackwell, the contractor for the lighting of the street lamps, deceased after a brief illness. Mr. Blackwell was a long-tried servant of the city, he having had the care of the lamps ever since their first introduction, some twenty-five years ago.

In regard to the lighting and care of the street lamps for the remainder of the term of the present contract (to March 1, 1884), we report, that Mr. R. T. Blackwell, who, as executor of the estate of Mr. Hugh Blackwell, has superintended the lighting of the lamps since the decease of his father, declines to carry out the contract for the unexpired term, on the ground that he cannot afford to do the work at the contract price.

For the Committee,

QUINCY A. VINAL, *Chairman*,
GEO. I. VINCENT, *Clerk*.

REPORT
OF THE
CITY SOLICITOR.

CITY OF SOMERVILLE.

IN BOARD OF MAYOR AND ALDERMEN, Feb 27, 1884.

Referred to the Committee on printing, to be printed with the Annual Reports for 1883. Sent down for concurrence.

CHARLES E. GILMAN, *Clerk.*

IN COMMON COUNCIL, Feb. 28, 1884.

Concurred in.

DOUGLAS FRAZER, *Clerk.*

CITY OF SOMERVILLE.

SOMERVILLE, Feb. 15, 1884,

To His Honor the Mayor and the City Council of Somerville:

GENTLEMEN:—I beg leave to present the following as my Eighth Annual Report:

Early in the year I was instructed by you to confer with the counsel of the Boston and Albany Railroad, as to the failure of that corporation to operate their gates at Somerville Avenue, when their trains were passing that point upon the Grand Junction Railroad. I succeeded, without the expense of litigation, in procuring a reference of the troubles between the Fitchburg and Albany roads, which had caused the disuse of the gates, to General Superintendent Furber, of the Boston and Maine Railroad, who has made an award, in accordance with the terms of which the gates are now satisfactorily tended, and public travel at that point adequately protected.

Two special acts of the General Court have been enacted during the year, in which the city has received certain advantages, to wit: Chapter 5, of 1883, entitled, An Act authorizing the town of Medford to lay water-pipes in Boston Avenue, in which it is provided that "said town shall, at its own expense, erect and maintain a hydrant at some suitable point upon the line of said avenue in said Somerville, from which said city shall have a right to take, free of expense, whatever water it may require for the extinguishment of fires or the watering of streets," and Chapter 87, of 1883, authorizing the Mayor and Aldermen of Somerville, to construct a sewer in Cambridge and Crescent Streets, in Boston. At the request of City Treasurer Cole, and with the co-operation of our own Committee on Legislative matters, and of the City Solicitors of Boston and Cambridge, I have been enabled to secure an amendment of Section 58, of Chapter 12 of the Public Statutes, extending the time within which a city or town may sell

real estate held under a sale, or taken for non-payment of taxes, the amendment appearing in Chapter 101, of 1883.

During the year I have attended all the meetings of the Committee on Claims, and have investigated with the Committee the following claims: Of Henrietta G. Stepp, for personal injuries received upon Shawmut Place; of Daniel Splane, for personal injuries received February 15, 1883; of Edward Cunningham, for damages received by the bursting of a water-pipe on Maple Street; of E. Markland White, with reference to a tax title upon an estate on Elm Street; of Ellen Crowley, for personal injuries received upon Broadway; of Michael Moran, for injuries received at corner of Medford and Ward Streets; of James Gavin and Lucy Gallagher, for gravel taken from Poplar Street, near Somerville Avenue; of Moses W. Thompson, for personal injuries received upon Washington Street; of L. J. Fowler, for personal injuries received upon Concord Avenue; of Morris E. Kanaly, for injuries to his horse upon Dickinson Street; and of Edgar F. Shaw, for personal injuries received upon Oakland Avenue.

These cases were disposed of as follows:—

Leave to withdraw was given to Splane, Crowley, Moran, Thompson, Fowler, Kanaly and Shaw.

The cases of Cunningham, Gavin and Gallagher were settled at a trifling expense. No action was taken in the case of White.

Mrs. Stepp and Mrs. Crowley have each brought suit against the city. Mr. Shaw has sued the contractor, instead of the city.

During the year, the following cases have been disposed of, or advanced toward settlement:—

The four cases of Reed et al, v. City of Somerville, were heard in the Superior Court at Cambridge soon after my last annual report, upon a motion for revision of cost, but the Court was of opinion that it had exhausted its jurisdiction in the matter, and the motions were accordingly overruled. I immediately sued out writs of error in the cases and have recently submitted the questions of law arising under them to the Supreme Court at its law term recently held at Boston, whose decision, which-ever way it may be, will probably render any further legal proceedings unnecessary.

The case of the City of Somerville for bridges, etc., v. the Boston and Lowell Railroad Company, is gradually approaching the

point where, either by the action of one or both of the parties, the improvements sought for by the suit will be realized.

For the same reasons stated in my last annual report, I have nothing new to report in the case of the City of Somerville v. the Fitchburg Railroad Company for grade crossing at Sacramento Street.

The cases of Parker, Trustee of the Klous estate, in the Supreme Court for Middlesex County, and before the Middlesex County Commissioners, for reasons stated in my last annual report, remain in the same condition as at that time.

During the past year the costs to which the city became entitled by the verdict in its favor in the suit of Sanborn v. the City, the year previous, have been received from Mr. Sanborn's executors and paid into the city treasury.

At the calling of the General Docket, recently, in the Superior Court at Cambridge, counsel associated with General Butler for the plaintiff in the case of Squire v. City of Somerville, informed the court that it was the plaintiff's intention soon to proceed with the case before the auditor. Otherwise the case would have been dropped from the docket for want of prosecution.

The case of William Sullivan against the city to recover \$15,000 claimed to be due Daniel F. McCarty and Mary Ann McCarty, for whose benefit the suit was brought, has been terminated in favor of the city.

The case of Cunningham against the city, for personal injuries on Washington street, has been dropped from the docket of the court, for want of prosecution.

The case of Brennan v. the City remains unchanged, and the city can have no interest in disturbing it.

The ten cases, called the Columbus Avenue betterment cases, were tried last June, occupying three days, and under the ruling of the court that no part of the sum paid by the city for land damages could be assessed upon the abutters, under the circumstances of these particular cases, the assessments were largely reduced. I, of course, excepted to the ruling of the court, and the cases were submitted recently by me to the Supreme Court upon the exceptions then taken.

The case of Whitcher v. the City of Somerville, for damages to horse and carriage by driving against one of the posts in Washington street near the Milk-Row Crossing, was tried Decem-

ber 26 and 27, 1883, and resulted in a verdict for the plaintiff of \$108, which if finally sustained by the Supreme Court, where the case has been taken on exceptions, will be paid by the Middlesex Horse Railroad Company. The case is a grave one, as involving the possible primary liability of the city for such accidents, and we shall be fortunate in obtaining the decision of the Supreme Court in this case, without expense to the city.

Respectfully submitted,

SAMUEL C. DARLING,

City Solicitor.

REPORT
OF
THE CITY CLERK.

CITY OF SOMERVILLE.

IN BOARD OF MAYOR AND ALDERMEN, March 8, 1884.

Referred to the Committee on printing, to be printed with the Annual Reports for 1883. Sent down for concurrence.

CHARLES E. GILMAN, *Clerk.*

IN COMMON COUNCIL, March 8, 1884.

Concurred in.

DOUGLAS FRAZER, *Clerk.*

CITY OF SOMERVILLE.

REPORT OF CITY CLERK.

Annual report of the receipts of his office for the year ending Dec. 31, 1883; also the registration of marriages, births, and deaths for the same period.

RECEIPTS FOR YEAR ENDING DEC. 31, 1883.

Recording mortgages and assignments,	\$233 50
Licensing 649 dogs @ .20,	129 80
8 auctioneers' licenses @ 2 00,	16 00
48 junk licenses, @ 2 00,	96 00
262 marriage certificates issued in 1883,	131 00
	<hr/>
	\$606 30

All of which has been paid to the city treasurer, and his receipt taken for the same.

MARRIAGES IN 1883.

Number of intentions issued in 1883,	262
Less than last year,	4
Marriages registered in 1883,	266

NATIONALITY OF THOSE REGISTERED.

Both parties American,	148
Both parties foreign,	53
American groom and foreign bride,	42
Foreign groom and American bride,	23
	<hr/>
	266 coup

First marriage of	457 persons.	
Second " "	71	"
Third " "	4	"
	<hr/>	
	532	= 266 couples.
	<hr/>	
Oldest person married,	68	
Youngest " "	16	
Youngest couple united in marriage,		
Bridegroom,	17	
Bride,	16	

BIRTHS.

Number of births registered in 1883,		577
Less than last year,		184
Males,	277	
Females,	300	
Born of American parents,		272
" foreign parents,		194
" American father and foreign mother,		54
" foreign father and American mother,		57
		<hr/>
Number cases of twins,	2	577

DEATHS.

Number of deaths in Somerville in 1883,		544
More than last year,		72
Number of males,	273	
Number of females,	271	
Under 10 years of age,		205
Between 10 and 20,		27
" 20 " 30,		46
" 30 " 40,		34
" 40 " 50,		46
" 50 " 60,		40
" 60 " 70,		58
" 70 " 80,		55
" 80 " 90,		27
" 90 " 100,		3
Unknown,		3
		<hr/>
		544

Oldest person deceased 90 years 9 months and 15 days.

NATIONALITY.

Born in Somerville,	168	
Born in other places in the United States,	244	
Foreign birth,	129	
Unknown,	3	
	—	544

Number of deaths returned by the undertakers, 544, and occurred as follows : —

January,	40	July,	61
February,	37	August,	54
March,	46	September,	39
April,	58	October,	40
May,	45	November,	29
June,	48	December,	47
		—	544

For classification of diseases, see Report of Board of Health.

CHARLES E. GILMAN,
City Clerk.

REPORT
OF THE
INSPECTOR OF BUILDINGS.

CITY OF SOMERVILLE.

IN BOARD OF MAYOR AND ALDERMEN, Feb. 13, 1884.

Referred to the Committee on Printing, to be printed with the Annual Reports for 1883. Sent down for concurrence.

CHARLES E. GILMAN, *Clerk.*

IN COMMON COUNCIL, Feb. 14, 1884.

Concurred in.

DOUGLAS FRAZAR, *Clerk.*

CITY OF SOMERVILLE.

To His Honor the Mayor and the Board of Aldermen :—

GENTLEMEN :—Your Inspector of Buildings will herewith present his annual report :—

The past year has been one of activity in building. Your inspector has found builders willing to comply with the ordinance in most cases, though there have been a few exceptions, but after an explanation, the ordinance has been complied with.

There have been one hundred and twenty-nine houses built the past year, besides a large number of additions, and one horse-car stable and car-house, thus adding quite a large amount to the taxable property of the city.

The buildings are divided among the different wards, as follows :—

Ward 1,	.	.	.	.	.	.	.	23 houses.
“ 2,	.	.	.	.	.	.	.	45 “
“ 3,	.	.	.	.	.	.	.	38 “
“ 4,	.	.	.	.	.	.	.	23 “
								<hr/> 129

RECOMMENDATION :

As the present ordinance is not definite in some particulars, I would recommend that it be amended so as to be more effective.

All of which is most respectfully submitted.

DAVID A. SANBORN,

Inspector of Buildings.

SOMERVILLE, Dec. 31, 1883.

CITY GOVERNMENT AND OFFICERS FOR 1884.

MAYOR.

JOHN A. CUMMINGS.

Residence, 16 Wallace Street ; office, City Hall.

ALDERMEN.

LEVI F. S. DAVIS, *President*.

WARD ONE.

LEVI F. S. DAVIS	.	.	.	.	Pearl Street.
NATHAN A. FITCH	.	.	.	.	Franklin Street.

WARD TWO.

SAMUEL G. A. TWYECROSS	.	.	.	.	Warren Avenue.
FRANKLIN R. PERRY	.	.	.	.	Pleasant Avenue.

WARD THREE.

ALBION A. PERRY	.	.	.	.	Broadway.
HIRAM D. SMITH	.	.	.	.	Cross Street.

WARD FOUR.

IRVING L. RUSSELL	.	.	.	.	Broadway.
DANIEL H. HAYWARD	.	.	.	.	Cherry Street.

CLERK OF BOARD OF ALDERMEN.

CHARLES E. GILMAN.

COMMON COUNCIL.

JOSIAH B. MAYHEW, *President*.

WARD ONE.

MOSES G. STEELE	Rush Street.
FRANK A. TITUS	Flint Street.
ELBRIDGE G. PARK	Arlington Street.
JOHN MANNING	Medford Street.

WARD TWO.

DANA W. BENNETT	Prospect Street.
SAMUEL W. HOLT	Washington Street.
PATRICK J. WHITE	Bow Street.
CHARLES A. WOODBERRY	Berkeley Street.

WARD THREE.

JOSIAH B. MAYHEW	Earle Street.
DANIEL C. STILSON	Tennyson Street.
JOHN F. KENNARD	Howe Street.
HARRISON ALDRICH	Gilman Street.

WARD FOUR.

ISRAEL C. EARLE	Irving Street.
GEORGE R. EMERSON	Broadway.
ALBERT M. ROBINSON	Belmont Street.
HERBERT C. HALL	Summer Street.

CLERK OF COMMON COUNCIL.

DOUGLAS FRAZAR.

JOINT STANDING COMMITTEES FOR 1884.

ACCOUNTS. — Aldermen Twycross, Hayward; Councilmen Park, Aldrich, Woodberry.

BURIAL GROUNDS. — Aldermen Perry (Ward Two), Hayward; Councilmen Steele, Stilson, Hall.

CITY ENGINEERING. — Aldermen Russell, Fitch; Councilmen Steele, Bennett, Kennard.

CLAIMS.—His Honor the Mayor, *ex-officio*; the President of the Council, *ex-officio*; Alderman Fitch; Councilmen Hall, White.

FINANCE.—His Honor the Mayor, *ex-officio*; the President of the Council, *ex-officio*; Aldermen Smith, Twycross; Councilmen Park, Bennett, Robinson, Titus.

FIRE DEPARTMENT.—Aldermen Davis, Perry (Ward Two); Councilmen Robinson, Kennard, Holt.

FUEL AND STREET LIGHTS.—Aldermen Russell, Fitch; Councilmen Holt, Aldrich, Hall.

HIGHWAYS.—Aldermen Smith, Russell; Councilmen Steele, Holt, Manning.

LEGISLATIVE MATTERS.—His Honor the Mayor, *ex-officio*, the President of the Council, *ex-officio*; Aldermen Perry (Ward Three); Councilmen Titus, Bennett.

ORDINANCES.—Aldermen Perry (Ward Three), Davis; Councilmen Bennett, Emerson, Park.

PRINTING.—Aldermen Davis, Russell; Councilmen Aldrich, Woodberry, Earle.

PUBLIC PROPERTY.—Aldermen Perry (Ward Three), Perry (Ward Two); Councilmen Titus, Stilson, Emerson.

SOLDIERS' RELIEF.—Aldermen Twycross, Hayward; Councilmen Stilson, Manning, Earle.

WATER.—Aldermen Hayward, Davis; the President of the Council; Councilmen White, Hall.

COMMITTEES OF THE BOARD OF ALDERMEN.

(STANDING COMMITTEES.)

ELECTIONS.—Aldermen Perry (Ward Two), Perry (Ward Three).

ENROLLED ORDINANCES.—Aldermen Hayward, Fitch.

LICENSES.—Aldermen Hayward, Perry (Ward Two).

POLICE.—His Honor the Mayor, *ex-officio*; Aldermen Fitch, Smith.

SEWERS.—Aldermen Perry (Ward Three), Fitch, Twycross.

STATE AID.—Aldermen Russell, Davis, Smith, Twycross.

(SPECIAL COMMITTEE.)

BUILDING PERMITS.—Aldermen Smith, Davis.

STANDING COMMITTEES OF THE COMMON COUNCIL.

ELECTIONS AND RETURNS.—Councilmen Manning, Earle, Emerson.

ENROLLED ORDINANCES AND RESOLUTIONS.—Councilmen Titus, Woodberry, White.

SCHOOL COMMITTEE.

JOHN A. CUMMINGS, Mayor, Chairman, *ex-officio*.

JOSIAH B. MAYHEW, President of the Common Council, *ex-officio*.

(Term, three years.)

WARD ONE.

JOHN H. BUTLER (elected 1881)	.	.	Pearl Street.
HENRY M. MOORE (elected 1882)	.	.	Myrtle Street.
HORACE C. WHITE, M.D., (elected 1883)	.	.	Pinckney Street.

WARD TWO.

OREN S. KNAPP (elected 1881)	.	.	School Street.
REV. GEO. W. DURELL (elected 1882)	.	.	Summer Street.
MRS. CORNELIA B. SKINNER (elected 1883)	.	.	High Street.

WARD THREE.

HENRY F. WOODS (elected 1881)	.	.	Sycamore Street.
NORMAN W. BINGHAM (elected 1882)	.	.	School Street.
Q. E. DICKERMAN (elected 1883)	.	.	Central Street.

WARD FOUR.

MARTIN W. CARR (elected 1883 for unexpired term)	.	.	Craigie Street.
PROF. BENJ. G. BROWN (elected 1882)	.	.	Professors' Row.
H. P. MAKECHNIE, M.D. (elected 1883)	.	.	Elm Street.

Superintendent and Secretary, J. H. DAVIS, Myrtle Street.

PRINCIPAL ASSESSORS.

(Term, three years.)

STILLMAN H. LIBBY (elected 1883), <i>Chairman</i>	.	.	Elm Street.
GEORGE W. HADLEY (elected 1882)	.	.	Perkins Street.
BENJAMIN F. THOMPSON (elected 1884)	.	.	Summit Avenue.

ASSISTANT ASSESSORS.

(Term one year.)

JOHN C. TENNEY, Ward One	.	.	Mystic Avenue.
ADONIRAM J. TAYLOR, Ward Two	.	.	Aldersey Street.
RUEBEN A. MELVIN, Ward Three	.	.	Bonair Street.
SAMUEL T. RICHARDS, Ward Four	.	.	Summer Street.

BOARD OF HEALTH.

(Term, Physician three years, other members two years.)

GEORGE A. KIMBALL (appointed 1883), <i>Chairman</i> ,	Office, City Hall.
GEORGE C. SKILTON, (appointed 1884).	Walnut Street.
THOMAS M. DURELL, M.D. (appointed 1882).	Bow Street
<i>Clerk</i> , GEORGE I. VINCENT,	Office, City Hall.
<i>Inspector</i> , WILLIAM H. BRINE,	40 Houghton St.

COMMISSIONERS OF THE SINKING FUNDS.

(Term, three years.)

NATHAN TUFTS (elected 1883).	.	.	Summer Street.
HENRY F. WOODS (elected 1882)	.	.	Sycamore Street.
EZRA D. CONANT (elected 1884).	.	.	Pearl Street.
<i>Treasurer</i> , AARON SARGENT,	Broadway.		

OVERSEERS OF THE POOR.

JOHN A. CUMMINGS, *Mayor, chairman, ex-officio.*
 JOSIAH B. MAYHEW, *Prest. Common Council.*

(Term three years.)

*ANSEL LEWIS (elected 1883).	.	.	Webster Street.
THOMAS CUNNINGHAM (elected 1884).	.	.	Oak Street.
JESSE J. UNDERHILL (elected 1883 for unexpired term),	Gilman Street.		

* Deceased February 18, 1884, and GEORGE W. WASHBURN elected to fill vacancy.

MYSTIC WATER BOARD.

(Term, one year.)

J. ORLIN HAYDEN, <i>President</i> ,	Hill Building, Union Square.
AARON R. COOLIDGE,	Columbus Avenue.
JAMES E. WHITAKER,	Sycamore Street.
WALTER S. BARNES,	Highland Avenue.
JOHN F. NICKERSON,	Flint Street.

Superintendent of Water Works, NATHANIEL DENNETT.

Office, Prospect Street, cor. Somerville Avenue.

TRUSTEES OF THE PUBLIC LIBRARY.

(Term, three years.)

REV. H. H. BARBER (elected 1883), <i>Prest.</i>	Chestnut Court.
WILLIAM E. WELD (elected 1884).	Harvard Street.
WILLIAM VEAZIE (elected 1884).	Walnut Street.
WILLIAM H. BRINE (elected 1883).	Highland Avenue.
MARK F. BURNS (elected 1884).	Perkins Street.
CHARLES S. LINCOLN (elected 1882).	Laurel Street.
THOMAS J. BUFFUM (elected 1882).	Florence Street.
J. HENRY FLITNER (elected 1883).	Day Street.
CHRISTOPHER E. RYMES (elected 1882).	Summer Street.

Librarian, HARRIET A. ADAMS.*Assistant Librarian*, LIZZIE A. STEVENS.

CITY CLERK AND CLERK OF BOARD OF ALDERMEN.

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CITY MESSENGER.

JAIRUS MANN. Office, City Hall.

CITY SOLICITOR.

SAMUEL C. DARLING. Office, 18 Rogers Building, Boston.

CITY AUDITOR.

DOUGLAS FRAZAR. Office, City Hall.

CITY ENGINEER.

GEORGE A. KIMBALL. Office, City Hall.

SUPERINTENDENT OF STREETS.

FRANK G. WILLIAMS, Albion Street. Office, City Hall.

CHIEF OF POLICE.

MELVILLE C. PARKHURST, Police Station, Bow Street.

CHIEF ENGINEER OF FIRE DEPARTMENT.

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ASSISTANT CLERK OF ASSESSORS AND COMMITTEES.

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HORACE B. RUNEY.

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SURVEYOR OF STONE WORK.

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G. A. BODGE.

GEO. L. SMITH.

DENNIS KELLY.

EDWARD M. CARTER.

GEO. H. CARLETON.

M. C. PARKHURST, *Lock-up Keeper*.

MEETINGS.

BOARD OF ALDERMEN.

Second and fourth Wednesday evenings of each month.

COMMON COUNCIL.

Thursday evenings following the second and fourth Wednesdays
of each month.

SCHOOL COMMITTEE.

Last Monday evening of each month,

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